

Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 1 of 10)

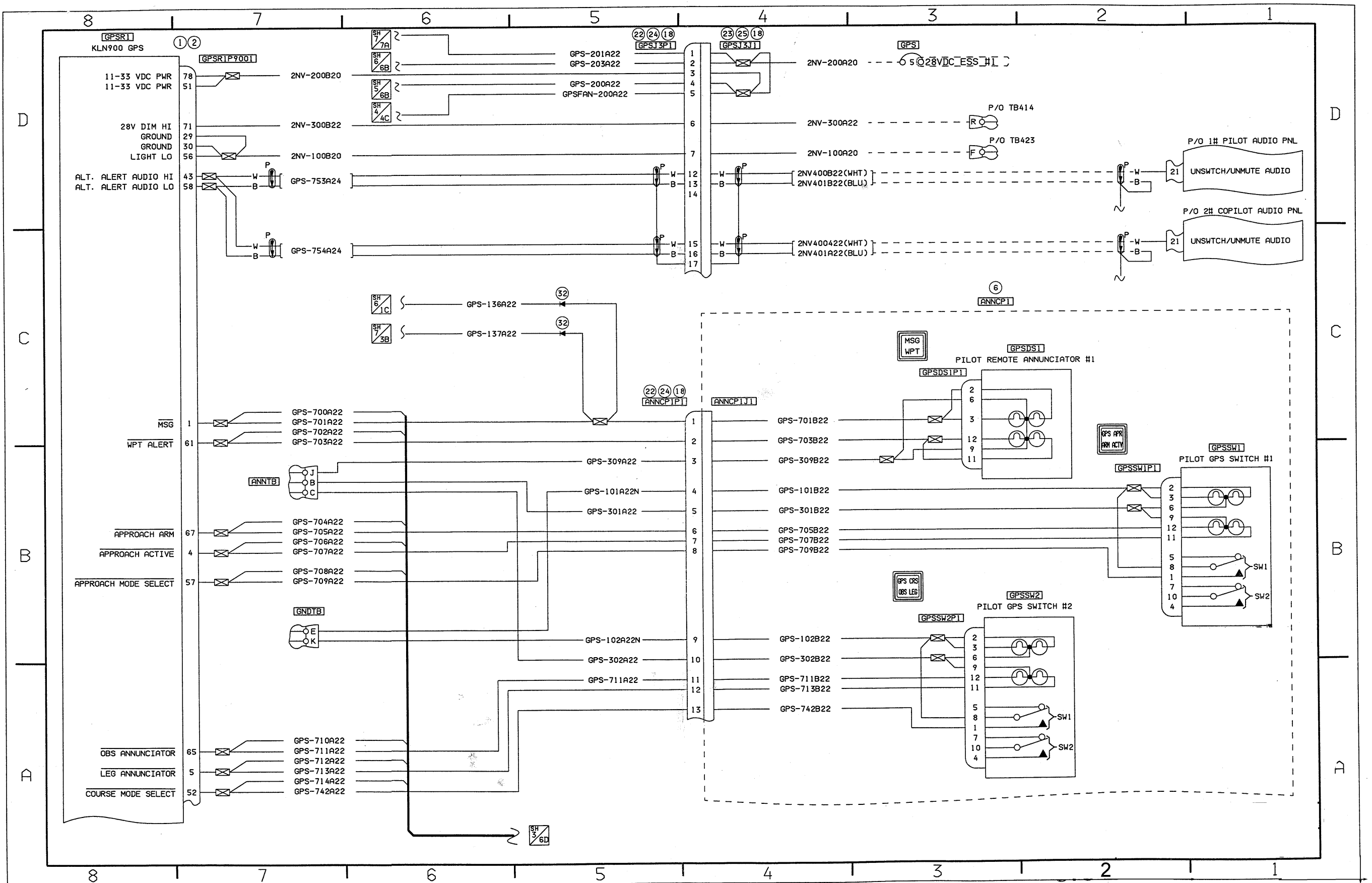


Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 2 of 10)

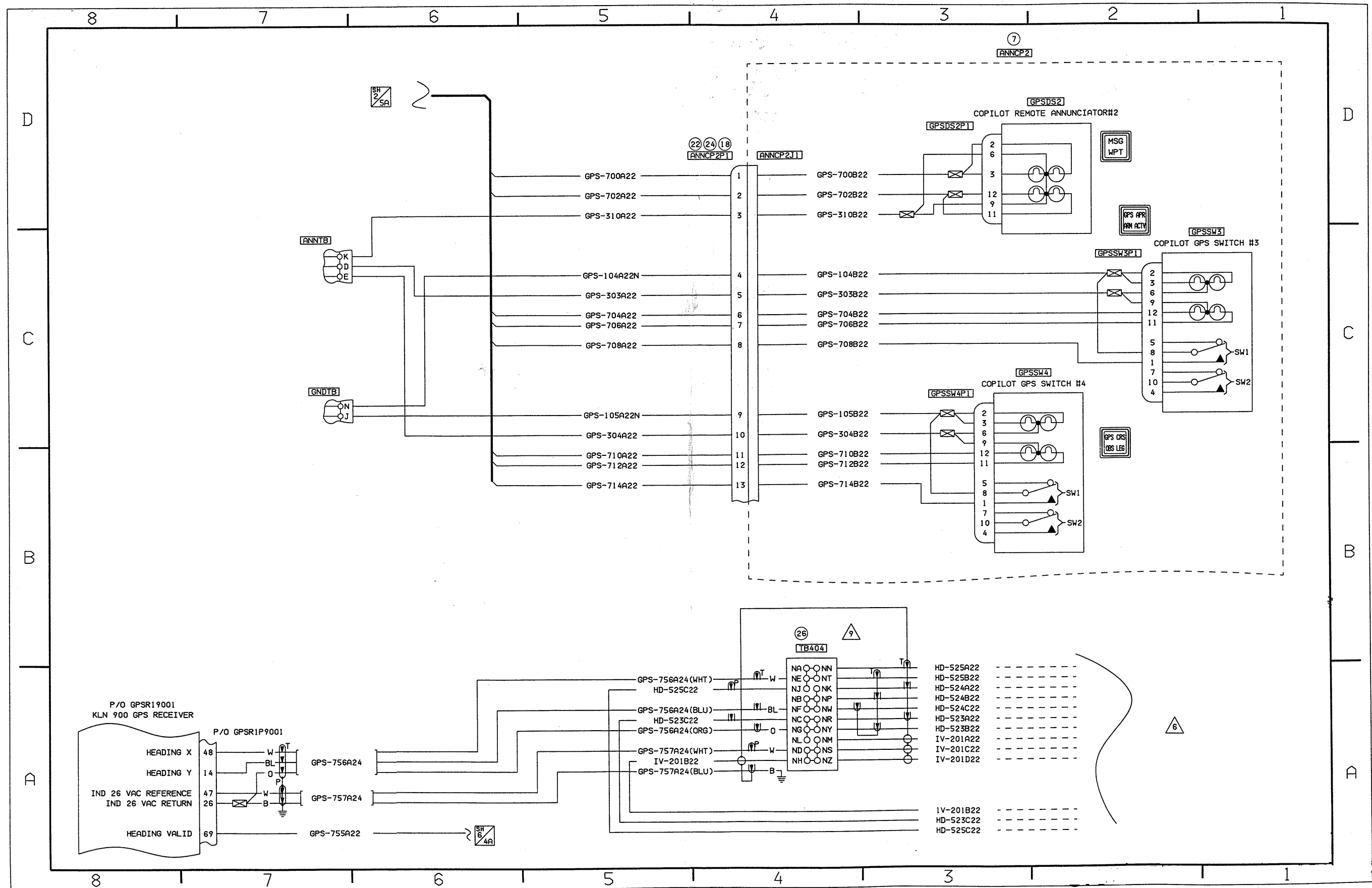


Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 3 of 10)

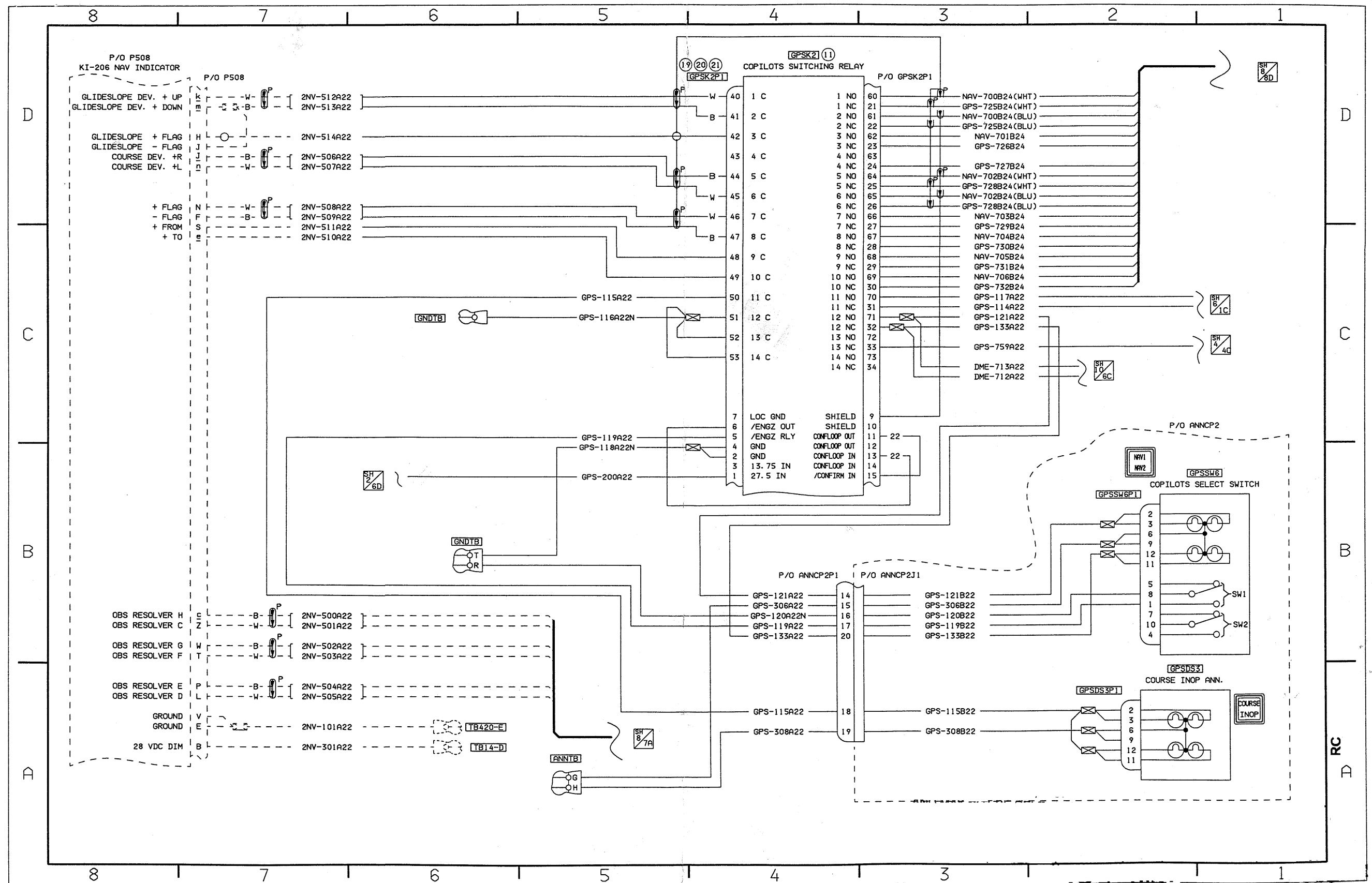


Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 5 of 10)

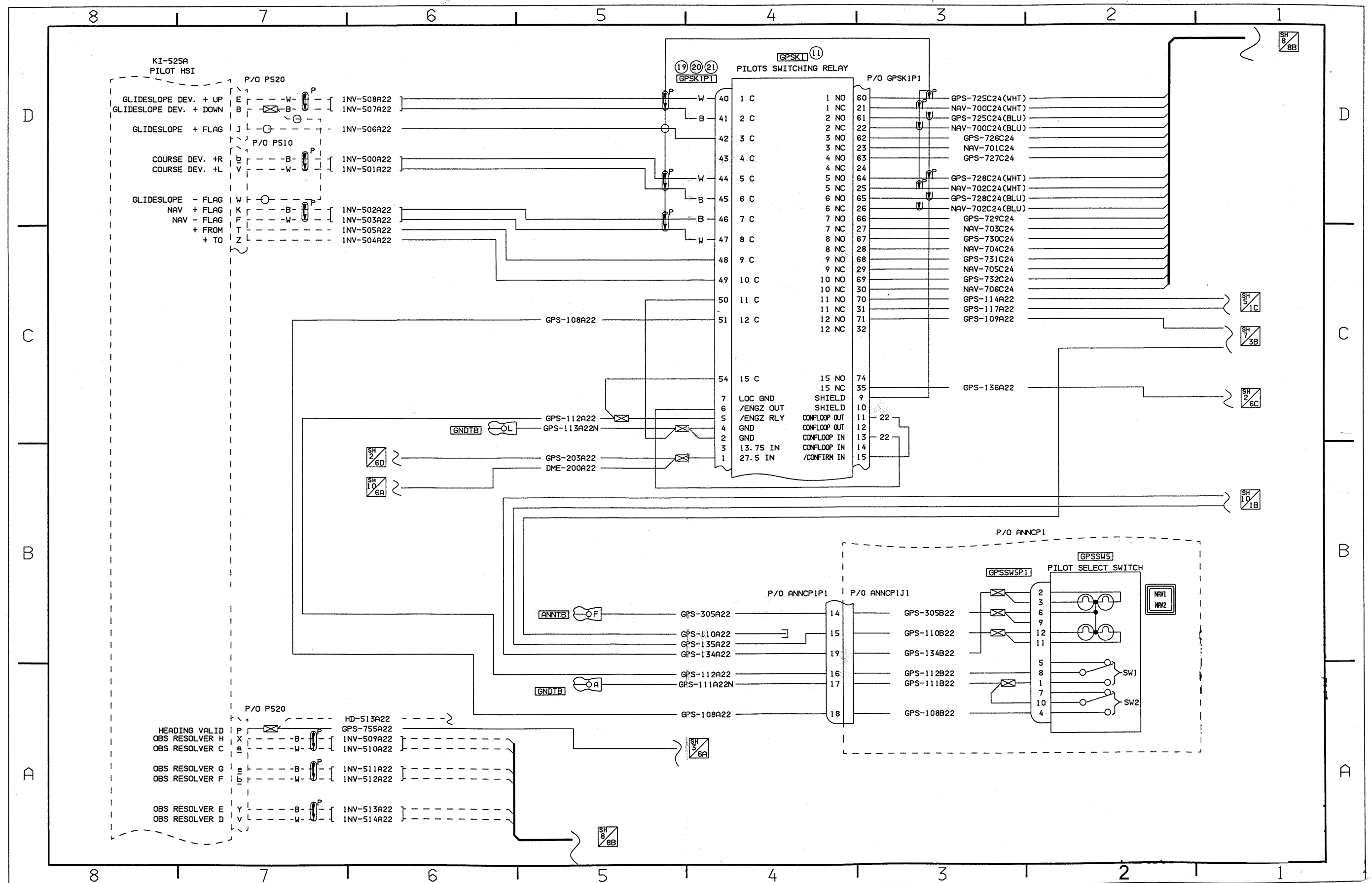


Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 6 of 10)

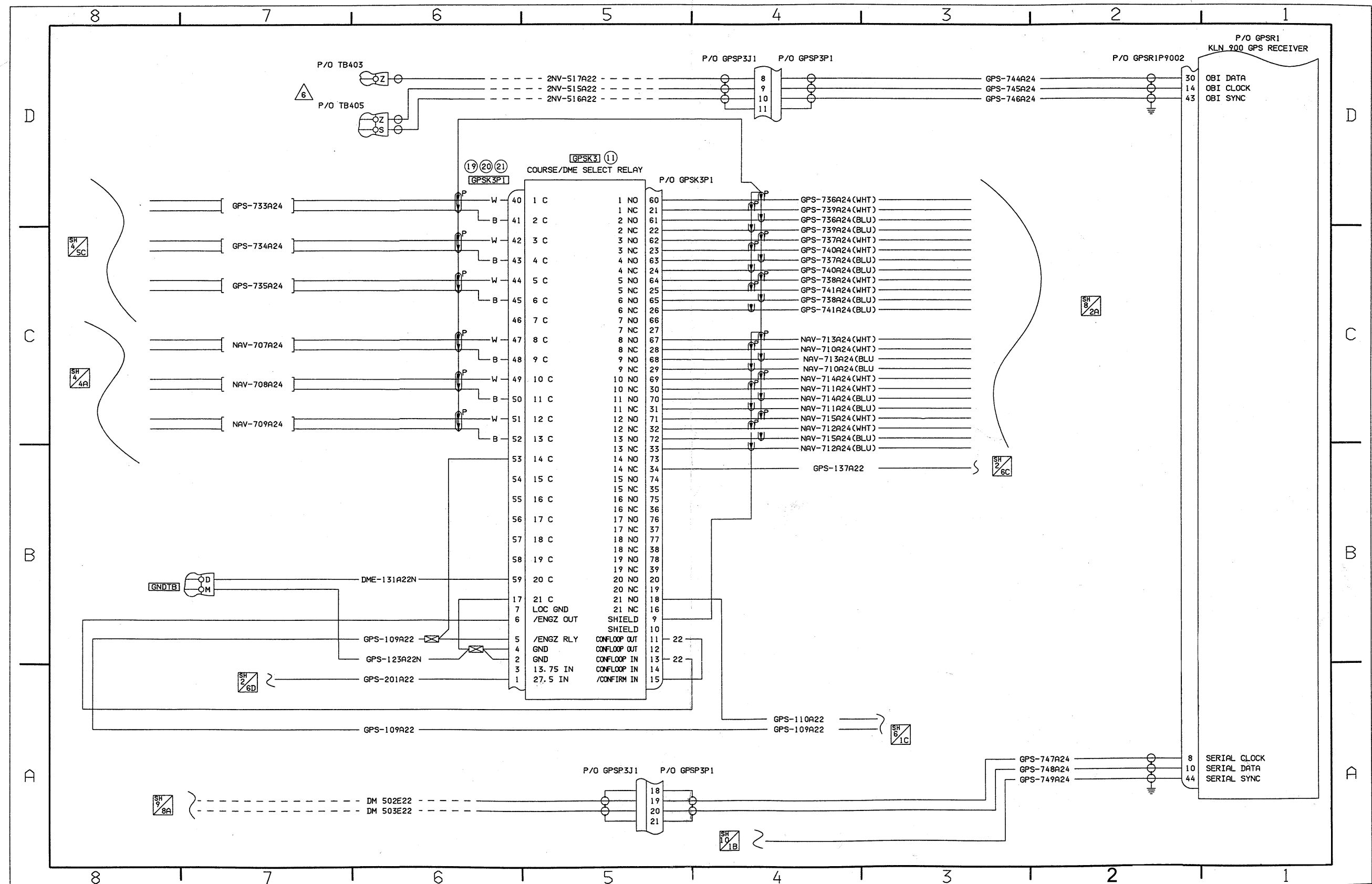


Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 7 of 10)

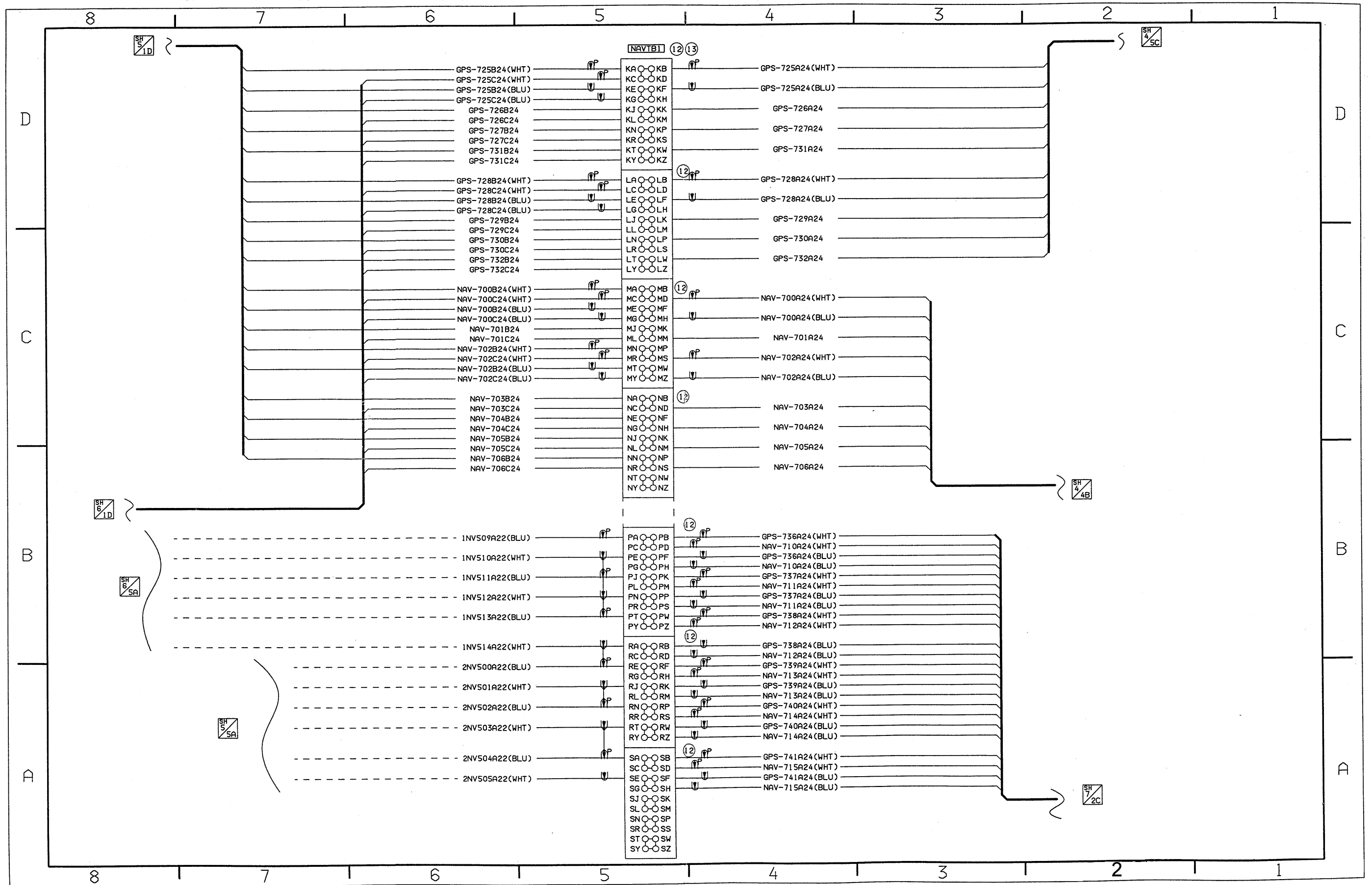


Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 8 of 10)

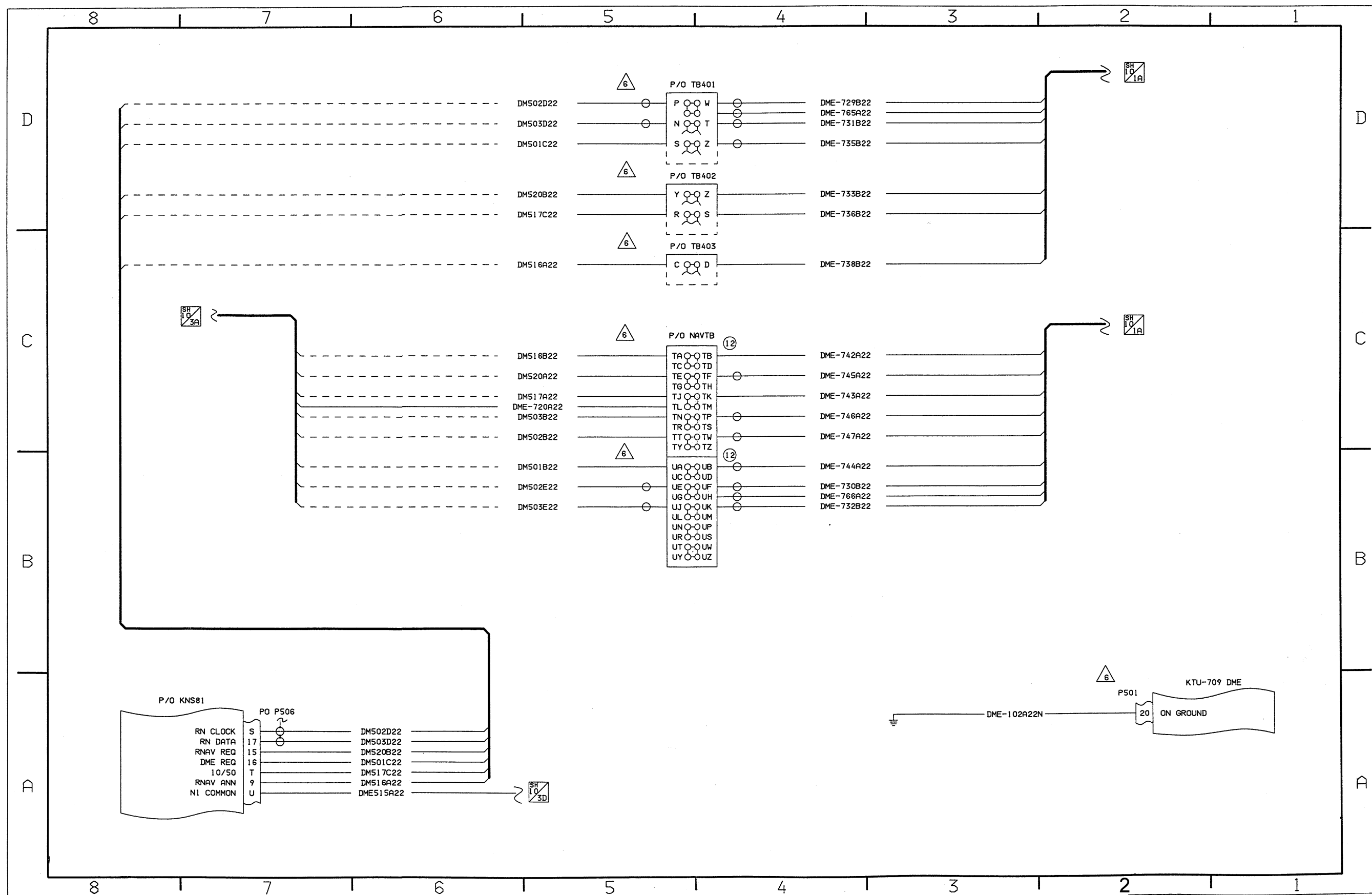


Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 9 of 10)

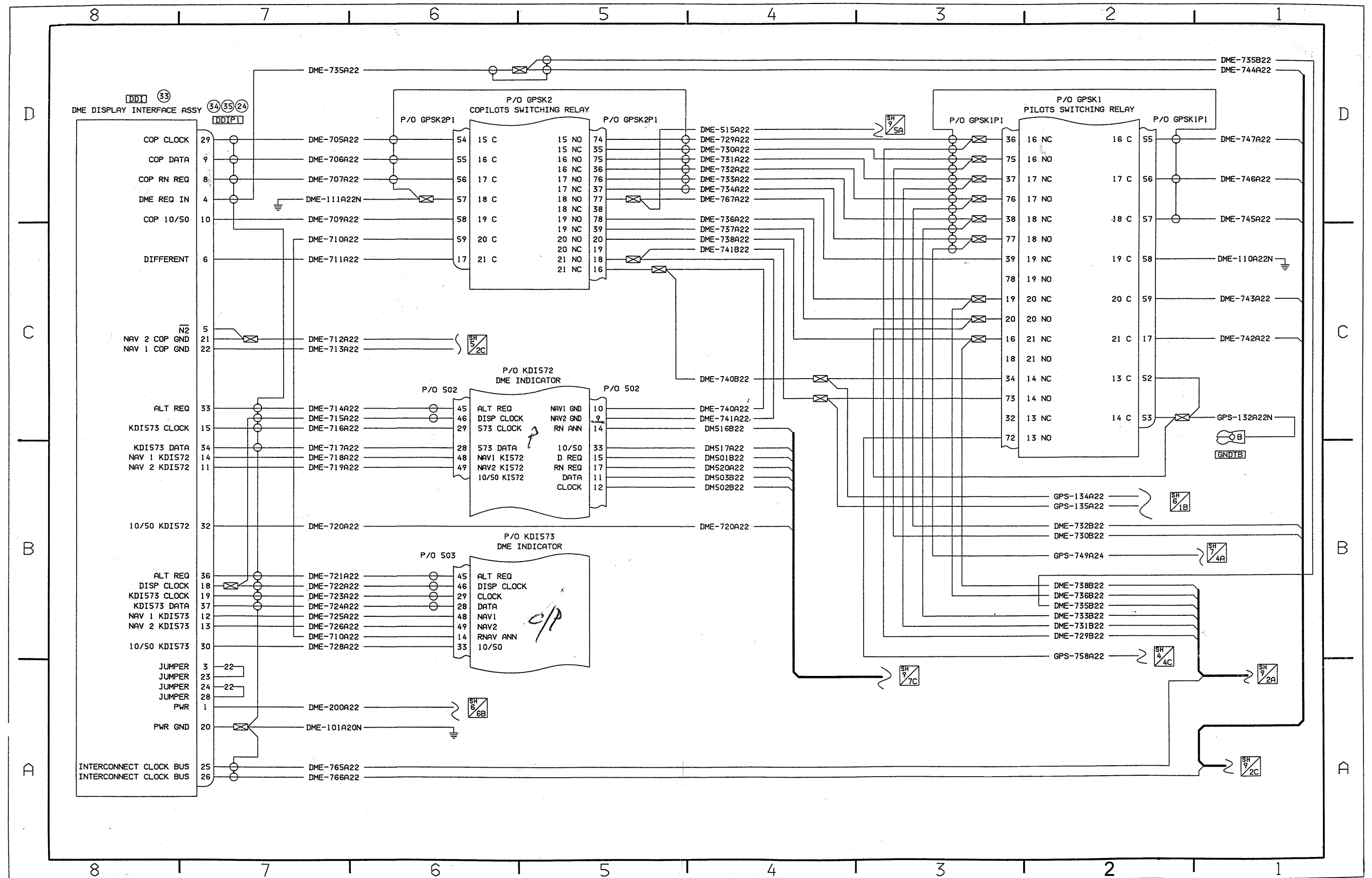


Figure 98-1. KLN 900 GPS W/Autopilot Wiring Diagram TH-57C (Sheet 10 of 10)

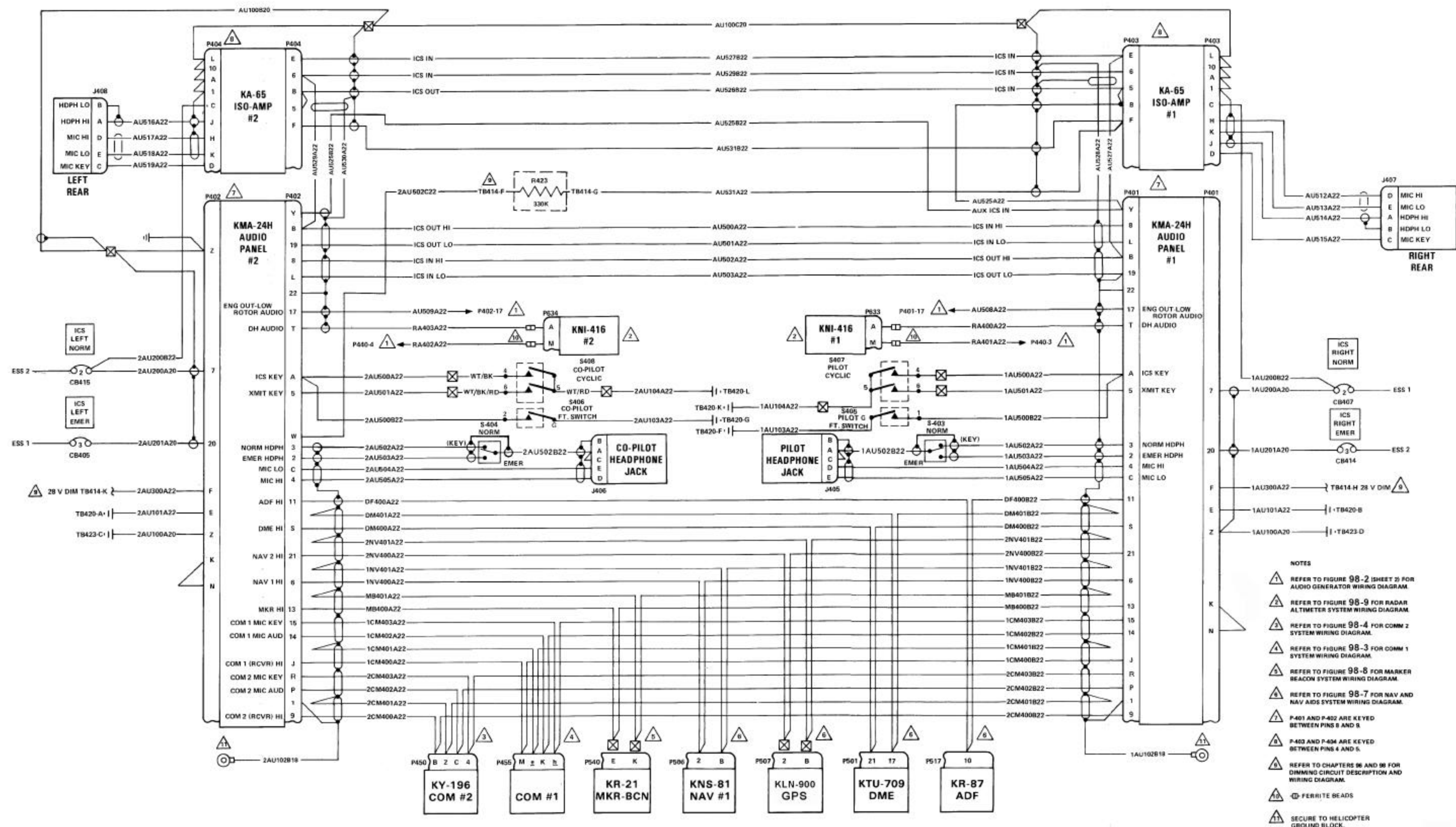


Figure 98-2. Audio/ICS Wiring Diagram TH-57C (Sheet 1 of 2)

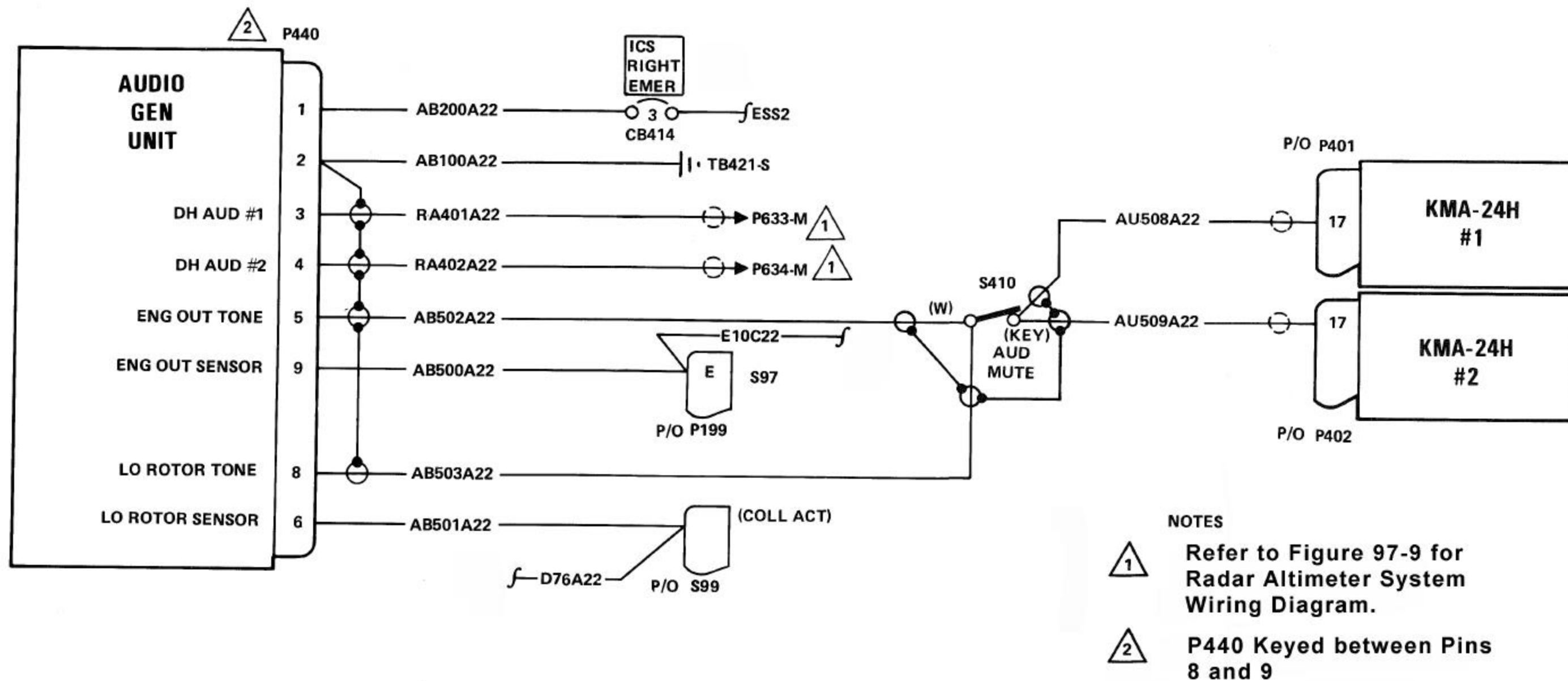
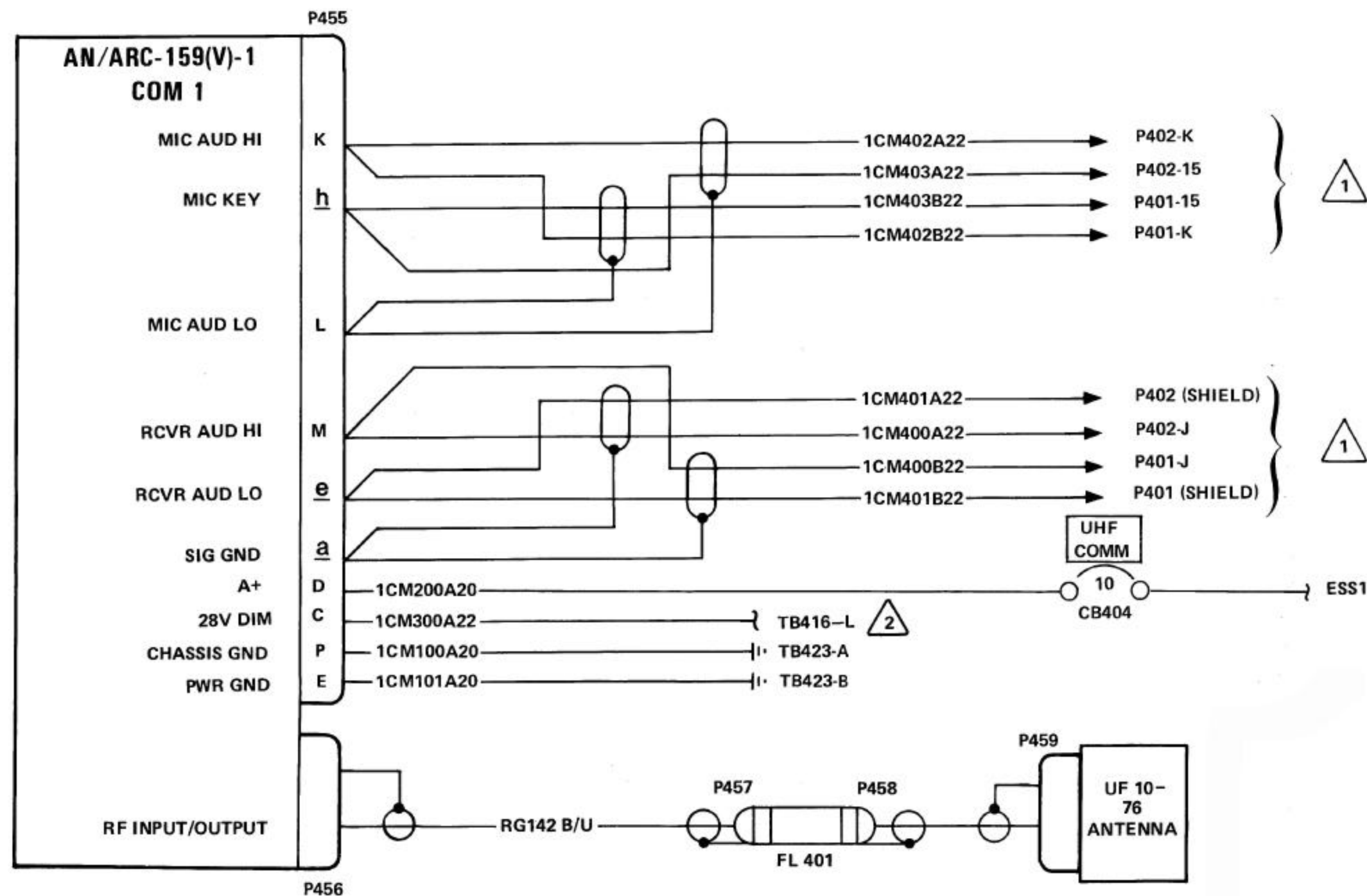


Figure 98-2. Audio/ICS Wiring Diagram TH-57C (Sheet 2 of 2)



- NOTES
- 1 REFER TO FIGURE 98-2 FOR AUDIO/ICS WIRING DIAGRAM.
- 2 REFER TO CHAPTER 98 FOR DIMMING CIRCUIT DESCRIPTION AND WIRING DIAGRAM.

Figure 98-3. COMM 1 System Wiring Diagram TH-57B

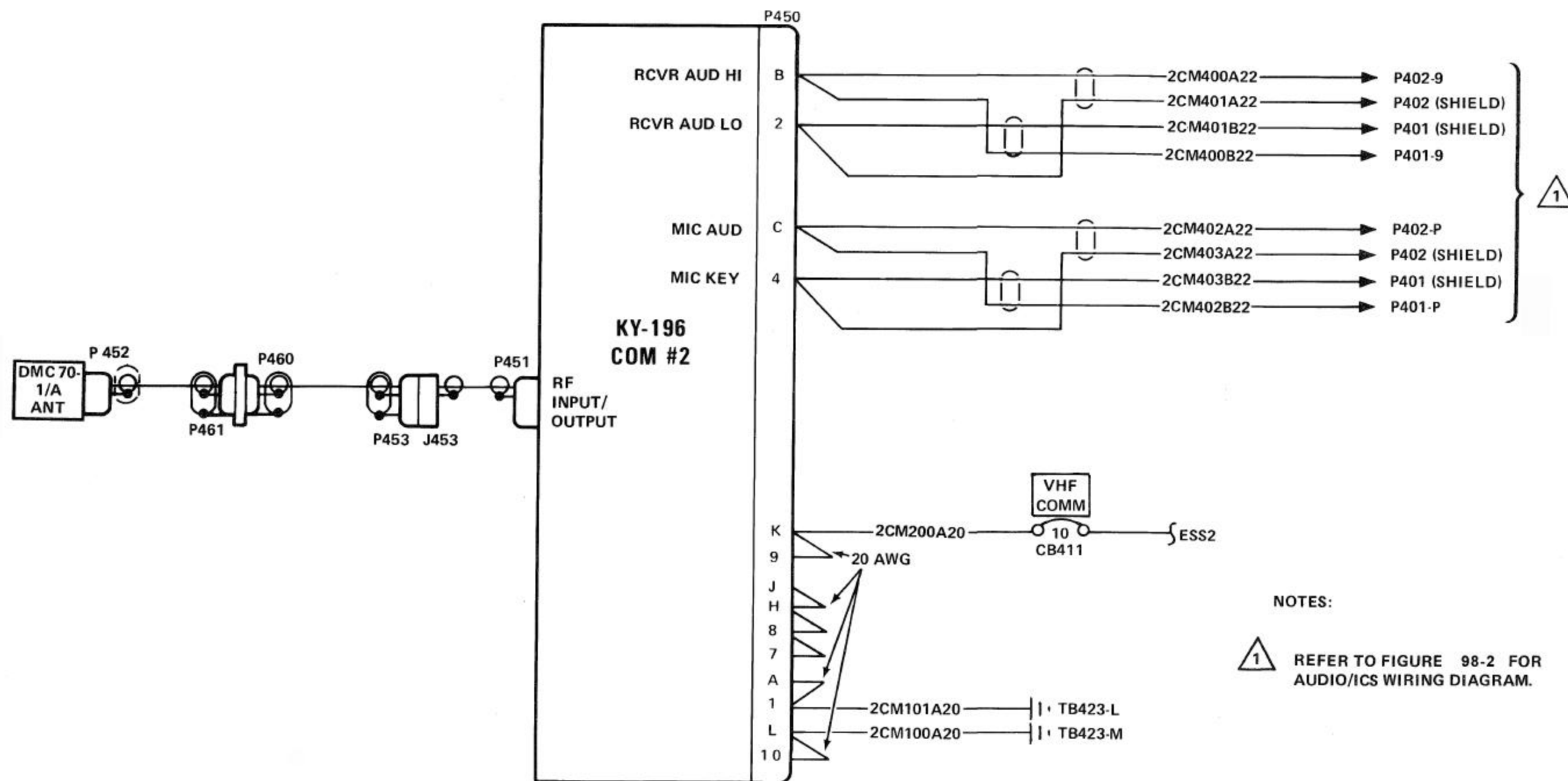


Figure 98-4. COMM 2 System Wiring Diagram TH-57B / C

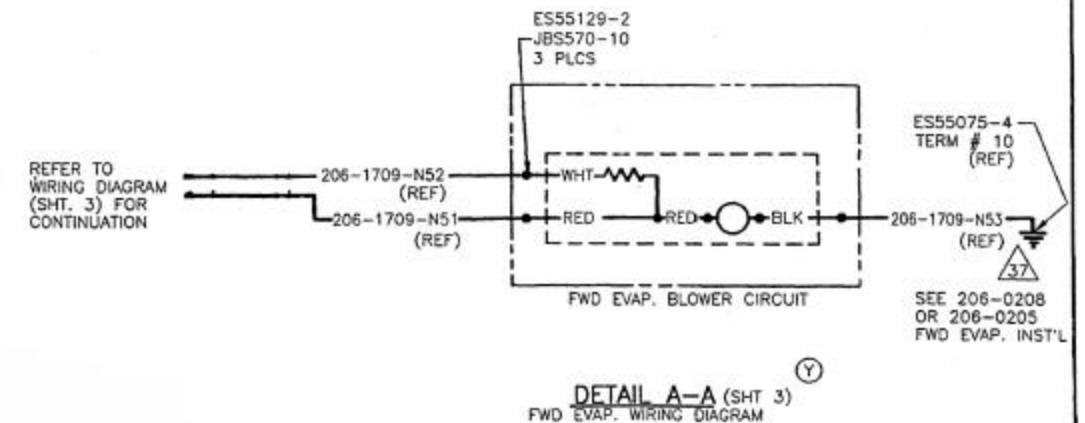
NOTES:

- 1 SOLDER CONNECTION
- 2 PREPARE AND INSTALL WIRING AND CONNECTIONS PER AC 43.13-1A, CH. 11, SECT. 2, PARA. 445 THRU 452 AND SECT. 7, PARA. 514 THRU 519.
- 3 WIRES ARE IDENTIFIED AS 206-1709-(N)
- 4 SUGGESTED LOC'N FOR A/C S/N 2211 AND LOWER FOR S/N2212 AND ON, CONVENIENT LOCATION ON PILOTS INSTRUMENT PANEL.
- 5 DELETED
- 6 RETROFIT INSTALLATION BLEED AIR HEATER DUCT OVER-HEAT WARNING LIGHT
- 7 DELETED
- 8 FACTORY INSTALLATION-BLEED AIR HEATER DUCT OVER-HEAT WARNING LIGHT FOR 206B MODELS.
- 9 WHEN PARTICLE SEPARATOR OPT. IS INSTALLED ALT. RESISTOR LOC'N WILL BE ON AFT FIREWALL PER VIEW B-B, (-1,-3,-5 S/N162013 THRU S/N 162502) OR VIEW H-H (-5 S/N 162053 & SUBSEQUENT INST'L
- 10 OPTIONS INTERFERENCE PERMITS RELOCATION OF ELECTRICAL PANEL TO A CONVENIENT LOCATION
- 11 206-0700-3 ECS FOR ALL 206 B, L1, L3, L4
- 12 206-0700-1 ECS FOR PROTOTYPE & 206A, B WITHOUT LOWER CONSOLE & WARNING LIGHTS LENS
- 13 DELETED
- 14 206-0700-6 HEAT ONLY (206 B ALT)
- 15 DELETED
- 16 EFF FOR FSO 01840-108 & AFTER FSO 1760-115 & AFTER FSO 01757-110 & AFTER & FSO 01873-103 & AFTER
- 17 SEAL W/PROSEAL 890 OR EQUIV (NOT SUPPLIED)
- 18 SEAL W/PROSEAL 700 OR EQUIV (NOT SUPPLIED)

- 19 CARE SHOULD BE EXERCISED TO MAKE SURE THAT WIRE LOCATION IN THE DRAIN PAN SHOULD BE ON A SLOPED SURFACE
- 20 206-0160-1 USED ON FSO 017154-101, -102 & FSO 01847-101 ONLY
- 21 DELETED
- 22 DELETED
- 23 DELETED
- 24 PERMISSABLE TO INCREASE WIRE LENGTH BY ADDING LENGTH OF SAME GAUGE WIRE ATTACH WITH PROPER SIZE SPLICE
- 25 HARDWARE TO BE USED WHEN MOUNTING Z ANGLES ARE NOT INSTALLED
- 26 HARDWARE TO BE USED WITH EXISTING MOUNTING Z ANGLE IS EXISTING
- 27 VIEW D-D IS "FOR INSTL'S WITH PRESS. SWITCH LOCATED ABOVE ENGINE PAN (REFER TO DETAIL K, FOR INSTL'S WITH PRESS. SWITCH LOCATED BELOW ENGINE PAN). IF THE PROPER SIZE PIN IS AVAILABLE IN ONE OF THE ENGINE BREAK CONNECTORS LOCATED ON THE RIGHT SIDE OF THE ENGINE COMPARTMENT USE THAT SPARE CONNECTOR AS A FEED THRU IN LIEU OF THE METHOD SHOWN IN VIEW D-D
- 28 EFFECTIVE FOR 206B(ALT) S/N 162013 THRU S/N 162052
- 29 DELETED
- 30 DELETED
- 31 GROUND WIRE REQUIRED FOR AFT MOUNTED COMPRESSOR ISOLATED COMPRESSOR ONLY
- 32 EFF. PRIOR TO SR1030 FOR 206-0100 -7, -9, -15 & -16 KITS
- 33 EFF. FOR KITS SR1030 & AFTER.
- 34 FOR INSTALLATION OF PLACARD SEE DWG 206-0100 GENERAL ARRANGEMENT
- 35 EFF. PRIOR TO SR1030 FOR 206-0100 -4, -14, -19 & -20
- 36 FACTORY INSTALLATION - BLEED AIR HEATER DUCT OVER-HEAT WARNING LIGHT FOR 206L3 & 4 MODELS
- 37 BOND GROUNDING SURFACES IN ACCORDANCE WITH FAA ADVISORY CIRCULAR NO. AC 43.13-1A, PARA. 452 A.B.C. & D. PRIME REWORKED SURFACES AND STUD USING ZINC CHROMATE (MIL-P-6889). REF. FIG. 11.12, 11.13 & 11.14 FOR #10 STUD/BOLT. ALL GROUNDING STUDS TO BE ATTACHED TO PRIMARY STRUCTURES, SUCH AS FLOOR BEAMS, BELTFRAMES, ETC.
- 38 DETAIL K, IS FOR INSTL'S WITH PRESS. SWITCH LOCATED BELOW THE ENGINE PAN (REFER TO VIEW D-D FOR INSTL'S WITH PRESS. SWITCH LOCATED ABOVE ENGINE PAN). IF THE PROPER SIZE PIN IS AVAILABLE IN ONE OF THE ENGINE BREAK CONNECTORS LOCATED ON THE RIGHT SIDE OF THE ENGINE COMPARTMENT USE THAT SPARE CONNECTOR AS A FEED THRU AND ROUTE WIRES 206-1709-N23 AND 206-1709-N21 THRU THE GROMMET

REVISION RECORDS 11-28-95		
ZONE	REV	DESCRIPTION
AA		CHANGED P/L ON SHT 2 AS SHOWN: WAS: AN525-8R7 NOW: AN525-832R7 AN525-8R14 AN525-832R14 AN525-8R18 AN525-832R18 CHANGE F/D TO REFLECT PART NUMBER CHANGE. ADDED #8 WIRE, P/N 206-1709-N56 TO P/L

REVISION RECORDS 3-25-94		
ZONE	REV	DESCRIPTION
Y		INCORPORATED ECN 2227 & 2284 (APPROVED ON PREVIOUS STC REVISION) AND ECN2505. REDRAWN ON CAD. REMOVED INACTIVE -5 VIEWS TO ECN. SHT 2; -4 INSTL; ADDED QTY 1 OF -N39 WIRE
Z		INCORP'D ECN 2847 & 2911



FASTENER CODE		DO NOT SCALE DRAWING
FASTENER	DESCRIPTION	FASTENER
1. BOLT	1/4" X 1/2" X 1/4"	2. BOLT
2. BOLT	1/4" X 1/2" X 1/4"	3. BOLT
3. BOLT	1/4" X 1/2" X 1/4"	4. BOLT
4. BOLT	1/4" X 1/2" X 1/4"	5. BOLT
5. BOLT	1/4" X 1/2" X 1/4"	6. BOLT
6. BOLT	1/4" X 1/2" X 1/4"	7. BOLT
7. BOLT	1/4" X 1/2" X 1/4"	8. BOLT
8. BOLT	1/4" X 1/2" X 1/4"	9. BOLT
9. BOLT	1/4" X 1/2" X 1/4"	10. BOLT
10. BOLT	1/4" X 1/2" X 1/4"	11. BOLT
11. BOLT	1/4" X 1/2" X 1/4"	12. BOLT
12. BOLT	1/4" X 1/2" X 1/4"	13. BOLT
13. BOLT	1/4" X 1/2" X 1/4"	14. BOLT
14. BOLT	1/4" X 1/2" X 1/4"	15. BOLT
15. BOLT	1/4" X 1/2" X 1/4"	16. BOLT
16. BOLT	1/4" X 1/2" X 1/4"	17. BOLT
17. BOLT	1/4" X 1/2" X 1/4"	18. BOLT
18. BOLT	1/4" X 1/2" X 1/4"	19. BOLT
19. BOLT	1/4" X 1/2" X 1/4"	20. BOLT
20. BOLT	1/4" X 1/2" X 1/4"	21. BOLT
21. BOLT	1/4" X 1/2" X 1/4"	22. BOLT
22. BOLT	1/4" X 1/2" X 1/4"	23. BOLT
23. BOLT	1/4" X 1/2" X 1/4"	24. BOLT
24. BOLT	1/4" X 1/2" X 1/4"	25. BOLT
25. BOLT	1/4" X 1/2" X 1/4"	26. BOLT
26. BOLT	1/4" X 1/2" X 1/4"	27. BOLT
27. BOLT	1/4" X 1/2" X 1/4"	28. BOLT
28. BOLT	1/4" X 1/2" X 1/4"	29. BOLT
29. BOLT	1/4" X 1/2" X 1/4"	30. BOLT
30. BOLT	1/4" X 1/2" X 1/4"	31. BOLT
31. BOLT	1/4" X 1/2" X 1/4"	32. BOLT
32. BOLT	1/4" X 1/2" X 1/4"	33. BOLT
33. BOLT	1/4" X 1/2" X 1/4"	34. BOLT
34. BOLT	1/4" X 1/2" X 1/4"	35. BOLT
35. BOLT	1/4" X 1/2" X 1/4"	36. BOLT
36. BOLT	1/4" X 1/2" X 1/4"	37. BOLT
37. BOLT	1/4" X 1/2" X 1/4"	38. BOLT
38. BOLT	1/4" X 1/2" X 1/4"	39. BOLT
39. BOLT	1/4" X 1/2" X 1/4"	40. BOLT
40. BOLT	1/4" X 1/2" X 1/4"	41. BOLT
41. BOLT	1/4" X 1/2" X 1/4"	42. BOLT
42. BOLT	1/4" X 1/2" X 1/4"	43. BOLT
43. BOLT	1/4" X 1/2" X 1/4"	44. BOLT
44. BOLT	1/4" X 1/2" X 1/4"	45. BOLT
45. BOLT	1/4" X 1/2" X 1/4"	46. BOLT
46. BOLT	1/4" X 1/2" X 1/4"	47. BOLT
47. BOLT	1/4" X 1/2" X 1/4"	48. BOLT
48. BOLT	1/4" X 1/2" X 1/4"	49. BOLT
49. BOLT	1/4" X 1/2" X 1/4"	50. BOLT
50. BOLT	1/4" X 1/2" X 1/4"	51. BOLT
51. BOLT	1/4" X 1/2" X 1/4"	52. BOLT
52. BOLT	1/4" X 1/2" X 1/4"	53. BOLT
53. BOLT	1/4" X 1/2" X 1/4"	54. BOLT
54. BOLT	1/4" X 1/2" X 1/4"	55. BOLT
55. BOLT	1/4" X 1/2" X 1/4"	56. BOLT
56. BOLT	1/4" X 1/2" X 1/4"	57. BOLT
57. BOLT	1/4" X 1/2" X 1/4"	58. BOLT
58. BOLT	1/4" X 1/2" X 1/4"	59. BOLT
59. BOLT	1/4" X 1/2" X 1/4"	60. BOLT
60. BOLT	1/4" X 1/2" X 1/4"	61. BOLT
61. BOLT	1/4" X 1/2" X 1/4"	62. BOLT
62. BOLT	1/4" X 1/2" X 1/4"	63. BOLT
63. BOLT	1/4" X 1/2" X 1/4"	64. BOLT
64. BOLT	1/4" X 1/2" X 1/4"	65. BOLT
65. BOLT	1/4" X 1/2" X 1/4"	66. BOLT
66. BOLT	1/4" X 1/2" X 1/4"	67. BOLT
67. BOLT	1/4" X 1/2" X 1/4"	68. BOLT
68. BOLT	1/4" X 1/2" X 1/4"	69. BOLT
69. BOLT	1/4" X 1/2" X 1/4"	70. BOLT
70. BOLT	1/4" X 1/2" X 1/4"	71. BOLT
71. BOLT	1/4" X 1/2" X 1/4"	72. BOLT
72. BOLT	1/4" X 1/2" X 1/4"	73. BOLT
73. BOLT	1/4" X 1/2" X 1/4"	74. BOLT
74. BOLT	1/4" X 1/2" X 1/4"	75. BOLT
75. BOLT	1/4" X 1/2" X 1/4"	76. BOLT
76. BOLT	1/4" X 1/2" X 1/4"	77. BOLT
77. BOLT	1/4" X 1/2" X 1/4"	78. BOLT
78. BOLT	1/4" X 1/2" X 1/4"	79. BOLT
79. BOLT	1/4" X 1/2" X 1/4"	80. BOLT
80. BOLT	1/4" X 1/2" X 1/4"	81. BOLT
81. BOLT	1/4" X 1/2" X 1/4"	82. BOLT
82. BOLT	1/4" X 1/2" X 1/4"	83. BOLT
83. BOLT	1/4" X 1/2" X 1/4"	84. BOLT
84. BOLT	1/4" X 1/2" X 1/4"	85. BOLT
85. BOLT	1/4" X 1/2" X 1/4"	86. BOLT
86. BOLT	1/4" X 1/2" X 1/4"	87. BOLT
87. BOLT	1/4" X 1/2" X 1/4"	88. BOLT
88. BOLT	1/4" X 1/2" X 1/4"	89. BOLT
89. BOLT	1/4" X 1/2" X 1/4"	90. BOLT
90. BOLT	1/4" X 1/2" X 1/4"	91. BOLT
91. BOLT	1/4" X 1/2" X 1/4"	92. BOLT
92. BOLT	1/4" X 1/2" X 1/4"	93. BOLT
93. BOLT	1/4" X 1/2" X 1/4"	94. BOLT
94. BOLT	1/4" X 1/2" X 1/4"	95. BOLT
95. BOLT	1/4" X 1/2" X 1/4"	96. BOLT
96. BOLT	1/4" X 1/2" X 1/4"	97. BOLT
97. BOLT	1/4" X 1/2" X 1/4"	98. BOLT
98. BOLT	1/4" X 1/2" X 1/4"	99. BOLT
99. BOLT	1/4" X 1/2" X 1/4"	100. BOLT

Figure 98-5. Air Conditioning Electrical Installation Wiring Diagram TH-57B / C (Sheet 1 of 5)

QTY	PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION
1	206-1709-N59	WIRE NO. #12	24"	LONG REF.	
2	ES55072-08	TERMINAL			
3	ES55120-3	SPLICE			EQUIV OF M525101-1
3	ES55079-1	KNIFE SPLICE			
2	ES55078-2	1/4 RECEPTACLE			
2	ES55077-2	TERMINAL #8			EQUIV OF M525036 - 149
1	ES55077-1	TERMINAL #8			
2	ES55075-4	TERMINAL #10			- 102
5	ES55075-3	TERMINAL #8			- 112
	DELETED				- 156
2	ES53002-1	TWO PIN PLUG			
1	ES50102-1	FILTER-DUCT HIGH TEMP			
	DELETED				
4	ES38125-3	TRIM WASHER			
4	ES38098-4	SPACER			
3	ES38098-1	SPACER			
4	ES31104-1	RIVNUT			
4	ES30015-5	CABLE TIE			
1	206-0160-3	PANEL ASSY. ECS-CONTROL			
1	206-0704-3	PANEL ASSY. ECS-CONTROL			
1	206-1709-N58	WIRE #8			12" LONG REF
1	206-1704-2	PANEL			
2	206-1710-1	ANGLE SUPPORT			8" LONG REF
1	206-1709-N49	WIRE #20			8" LONG REF
1	206-1709-N46	*12			8" LONG REF
1	206-1709-N44	*12			8" LONG REF
	DELETED				
	DELETED				
	-N99				24"
	-N36				72"
	-N37				20"
	-N36	*22			175"
	-N35	*12			6"
	-N34	*22			6"
	-N33				6"
	-N32				250"
	-N31	*22			150"
	-N27	*20			50"
	DELETED				DELETED
	-N21				50"
	-N16				22"
	-N15				4"
	206-1709-N12	*20			38" LONG REF
	DELETED				
	206-1706-1	SUPPORT ANGLE ASSEMBLY			
	206-1705-1	SUPPORT ANGLE ASSEMBLY			
	206-1102-1	COVER			
	DELETED				
	206-0701-1	ELECTRICAL PANEL ASSY			
	DELETED				
	206-0150-2	PANEL			
	-6	ELECTRICAL INSTALLATION			HEAT ONLY 206 BALT)
	DELETED				
	-4				HEATER 206 B L3 (DEM) L4 @
	-3				ECS 206 B L1, L3, L4 @
	-2				HEATER 206 B L1 (AM)
	-1	ELECTRICAL INSTALLATION			ECS 206 A,B ECS (AM)

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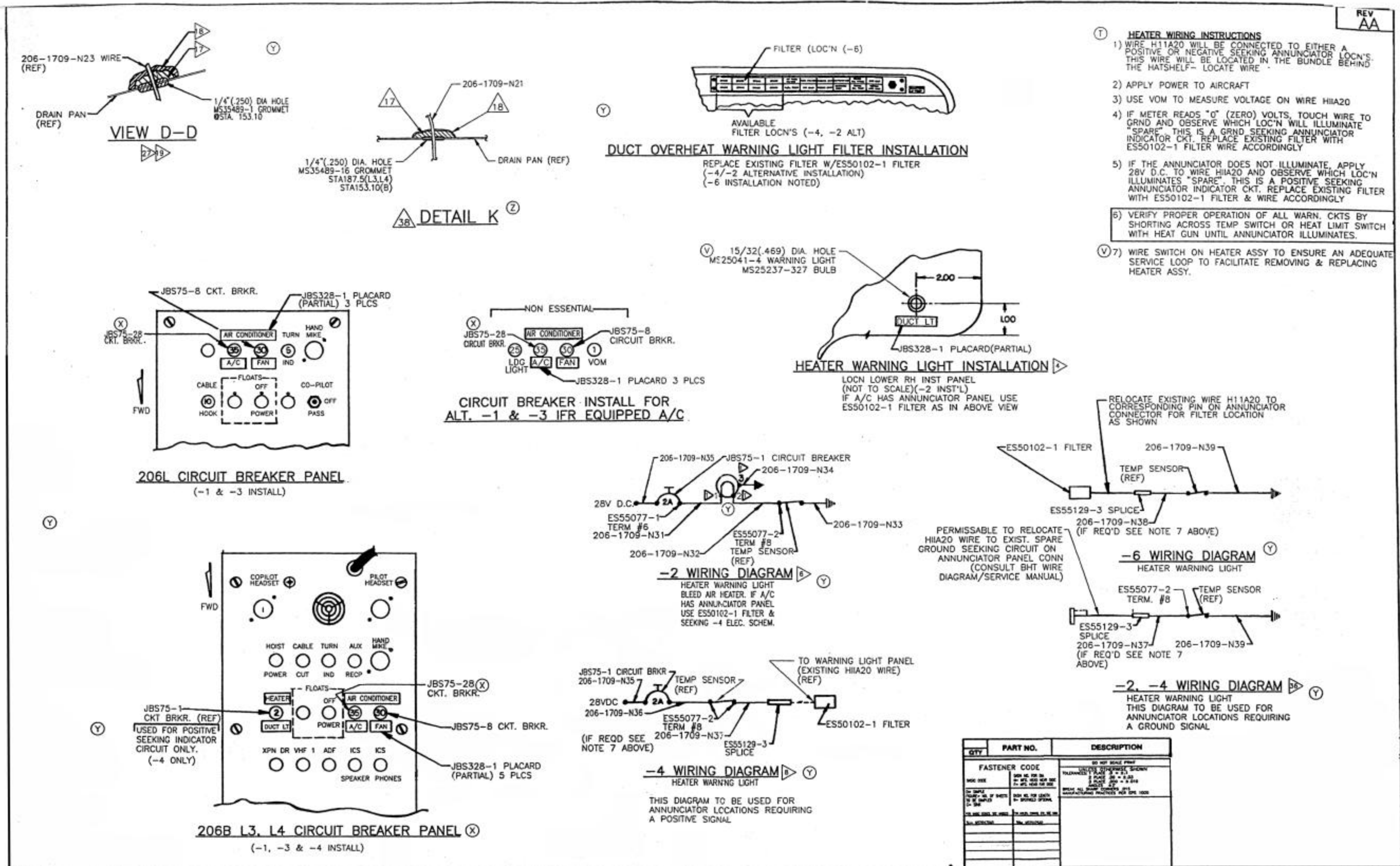


Figure 98-5. Air Conditioning Electrical Installation Wiring Diagram TH-57B / C (Sheet 4 of 5)

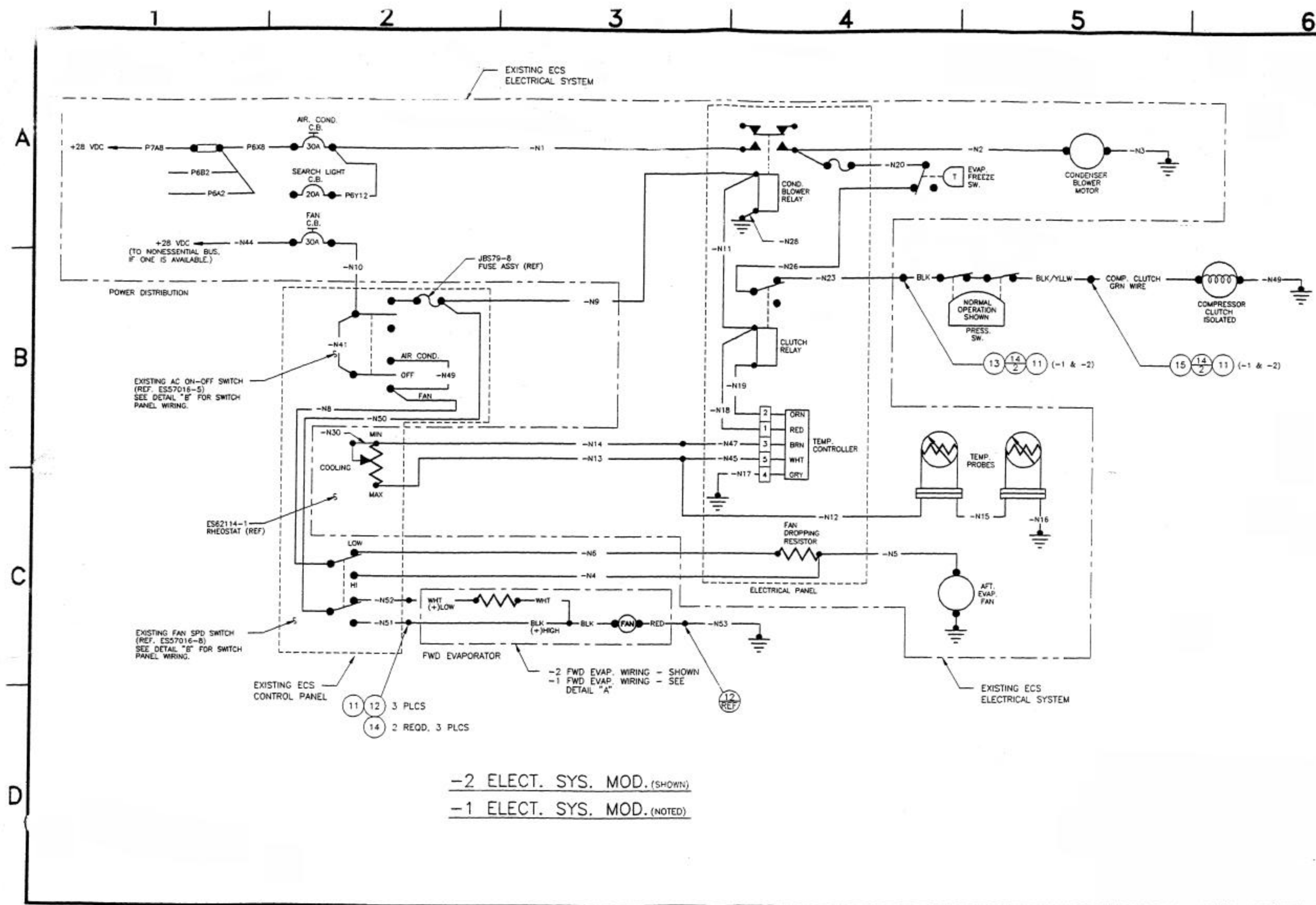


Figure 98-6. Air Conditioning Electrical System Wiring Diagram TH-57B / C



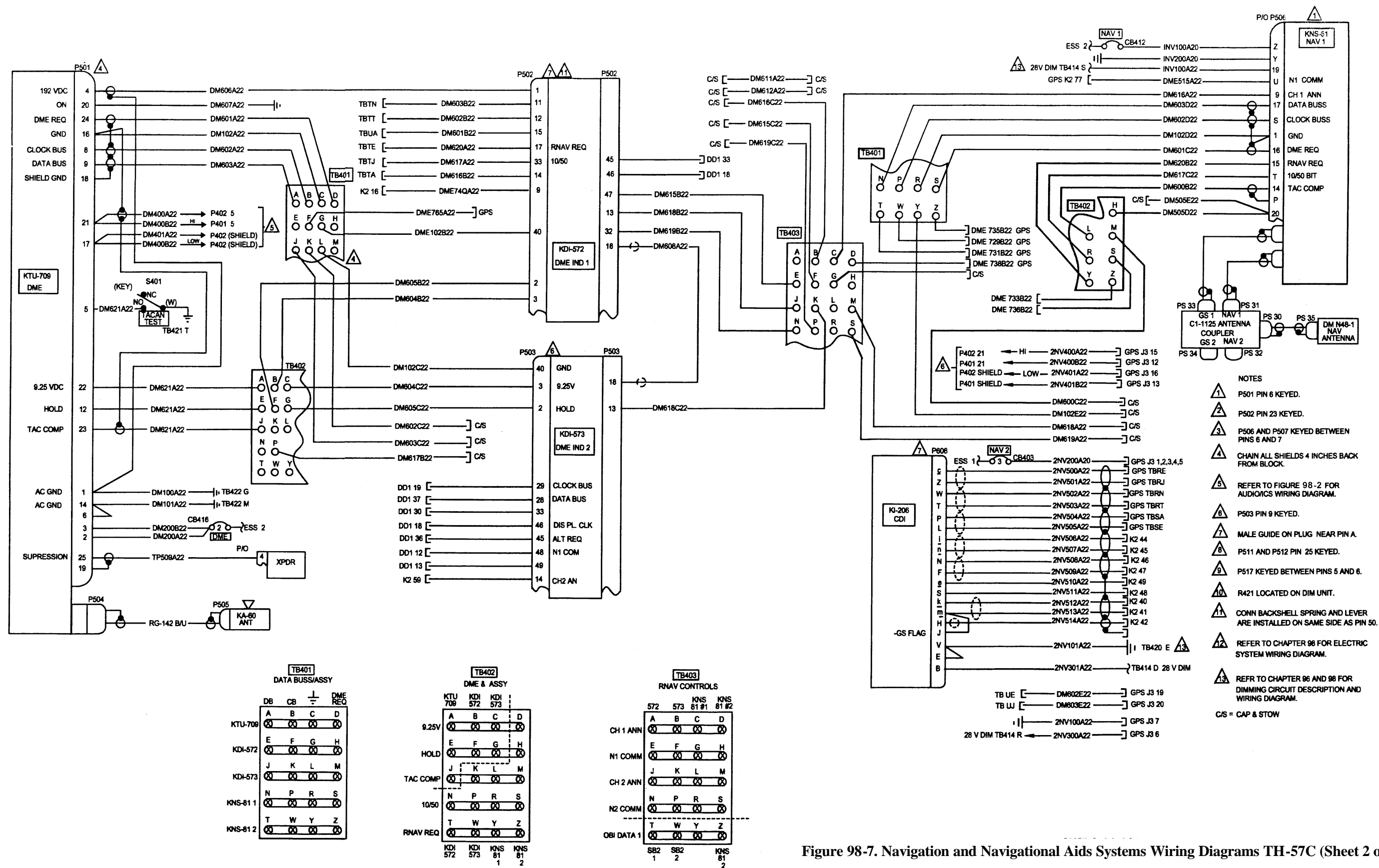


Figure 98-7. Navigation and Navigational Aids Systems Wiring Diagrams TH-57C (Sheet 2 of 2)

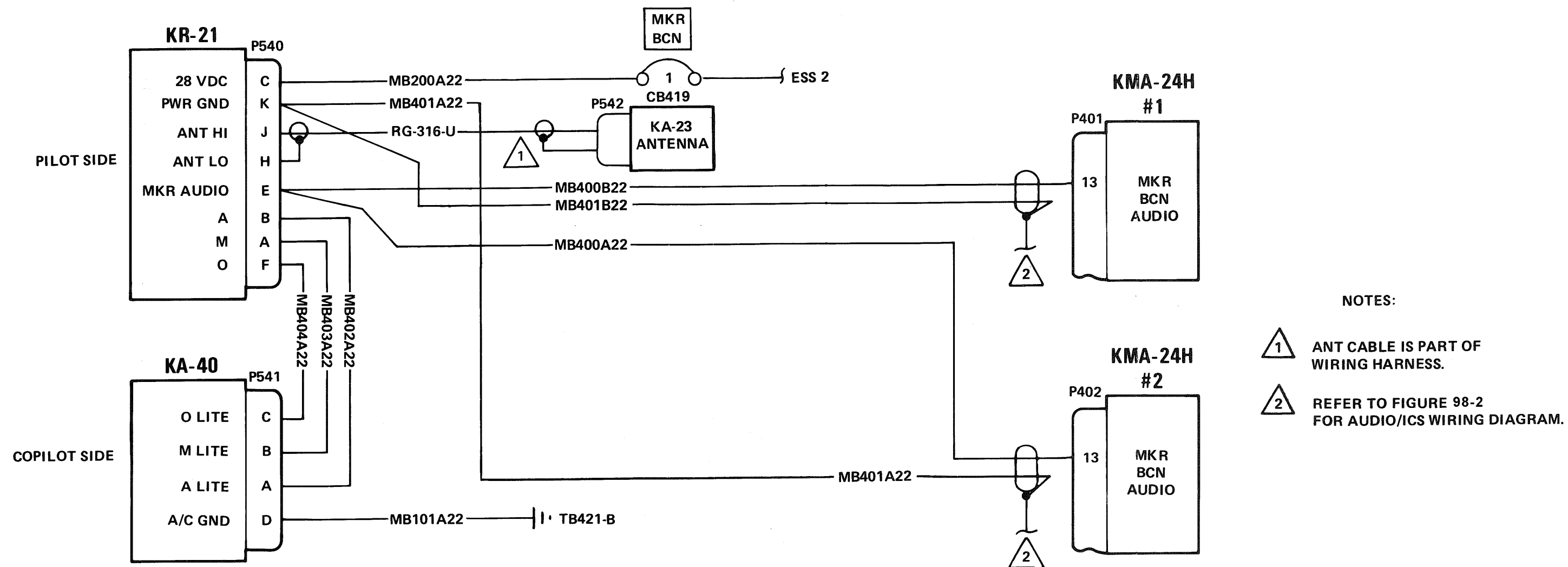
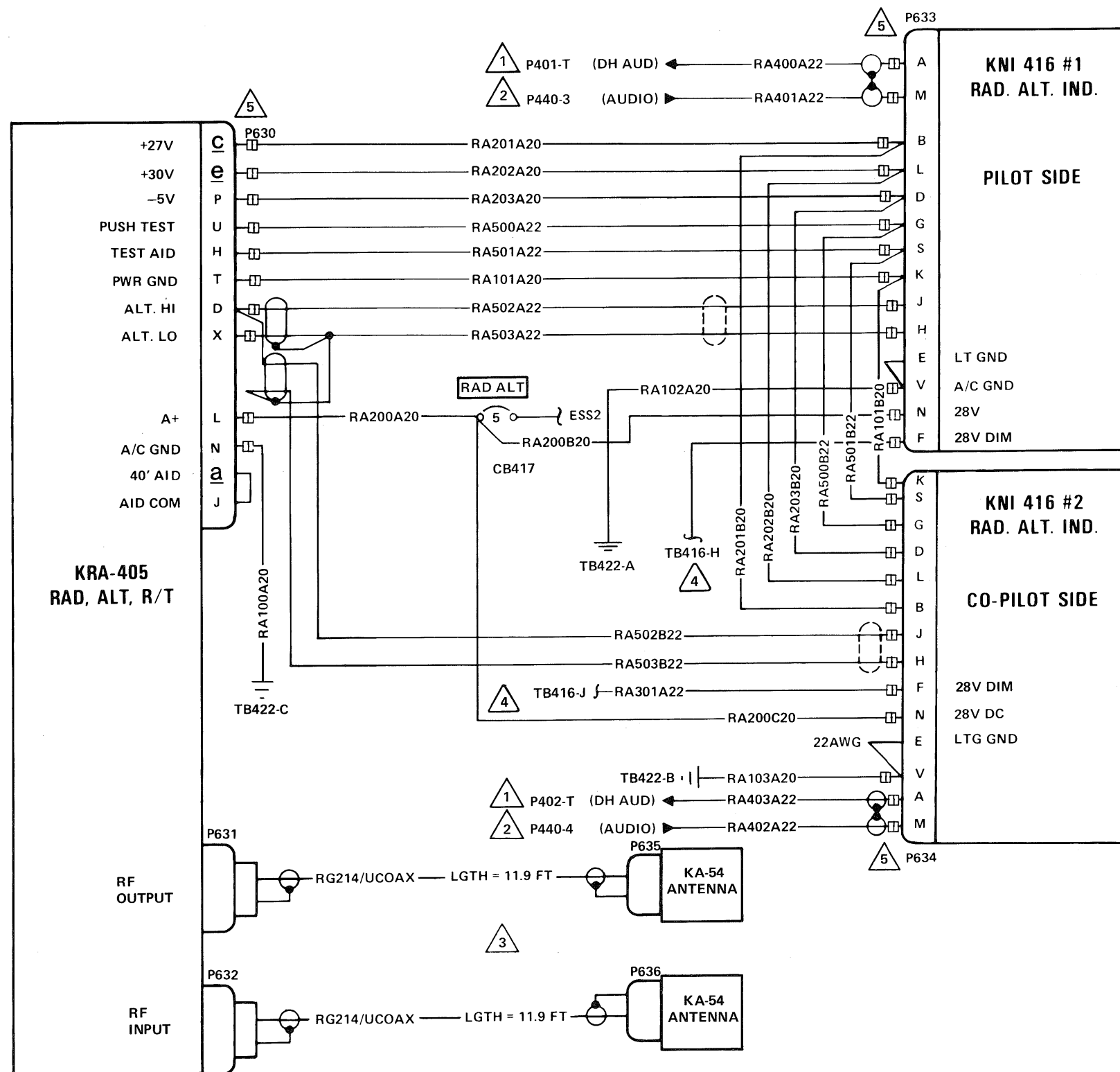


Figure 98-8. Marker Beacon System Wiring Diagram TH-57B / C



- NOTES
- 1 REFER TO FIGURE 98-2 FOR AUDIO/ICS WIRING DIAGRAM.
 - 2 REFER TO FIGURE 98-2 (SHEET 2) FOR AUDIO/ICS (AUDIO GENERATOR) WIRING DIAGRAM.
 - 3 ANTENNA COAXIAL LENGTHS ARE $\pm 1.0''$.
 - 4 REFER TO CHAPTERS 96 AND 98 FOR DIMMING CIRCUIT DESCRIPTION AND WIRING DIAGRAM.
 - 5 FERRITE BEADS

Figure 98-9. Radar Altimeter System Wiring Diagram TH-57B / C

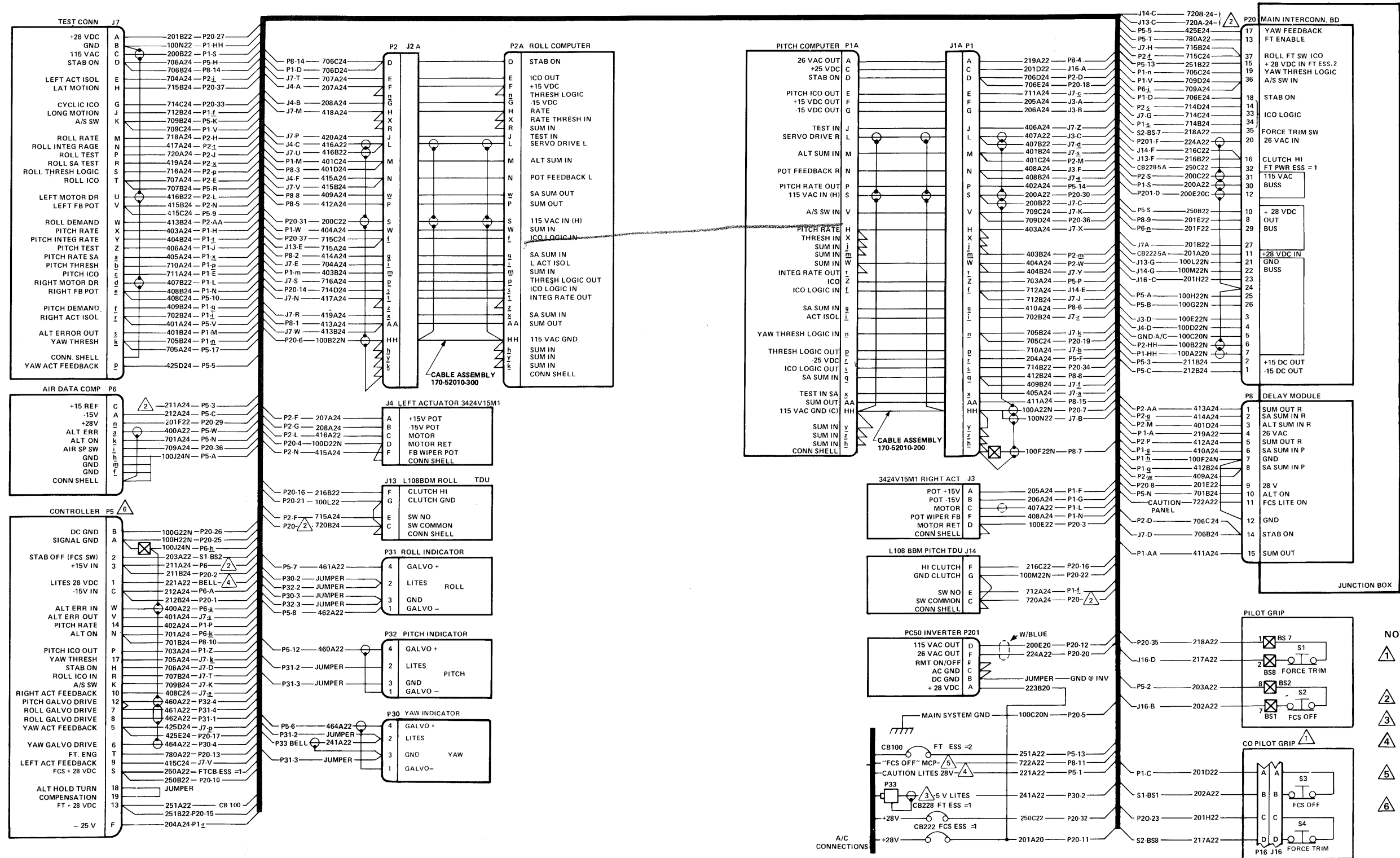


Figure 98-10. Flight Control/MINISTAB System Wiring Diagram TH-57C

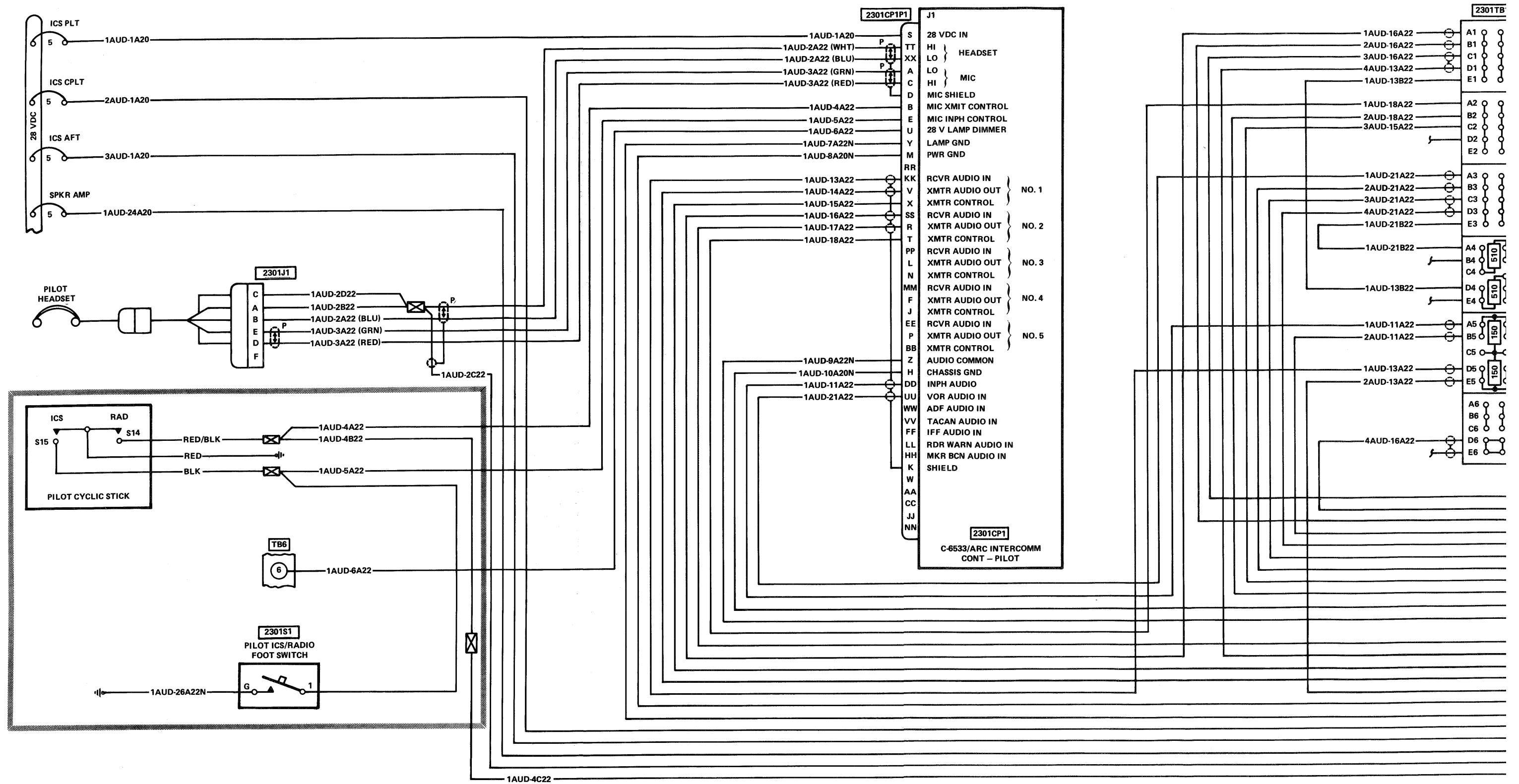


Figure 98-11. C6533/ARC Intercommunication System (Left Side) TH-57B (Sheet 1 of 4)

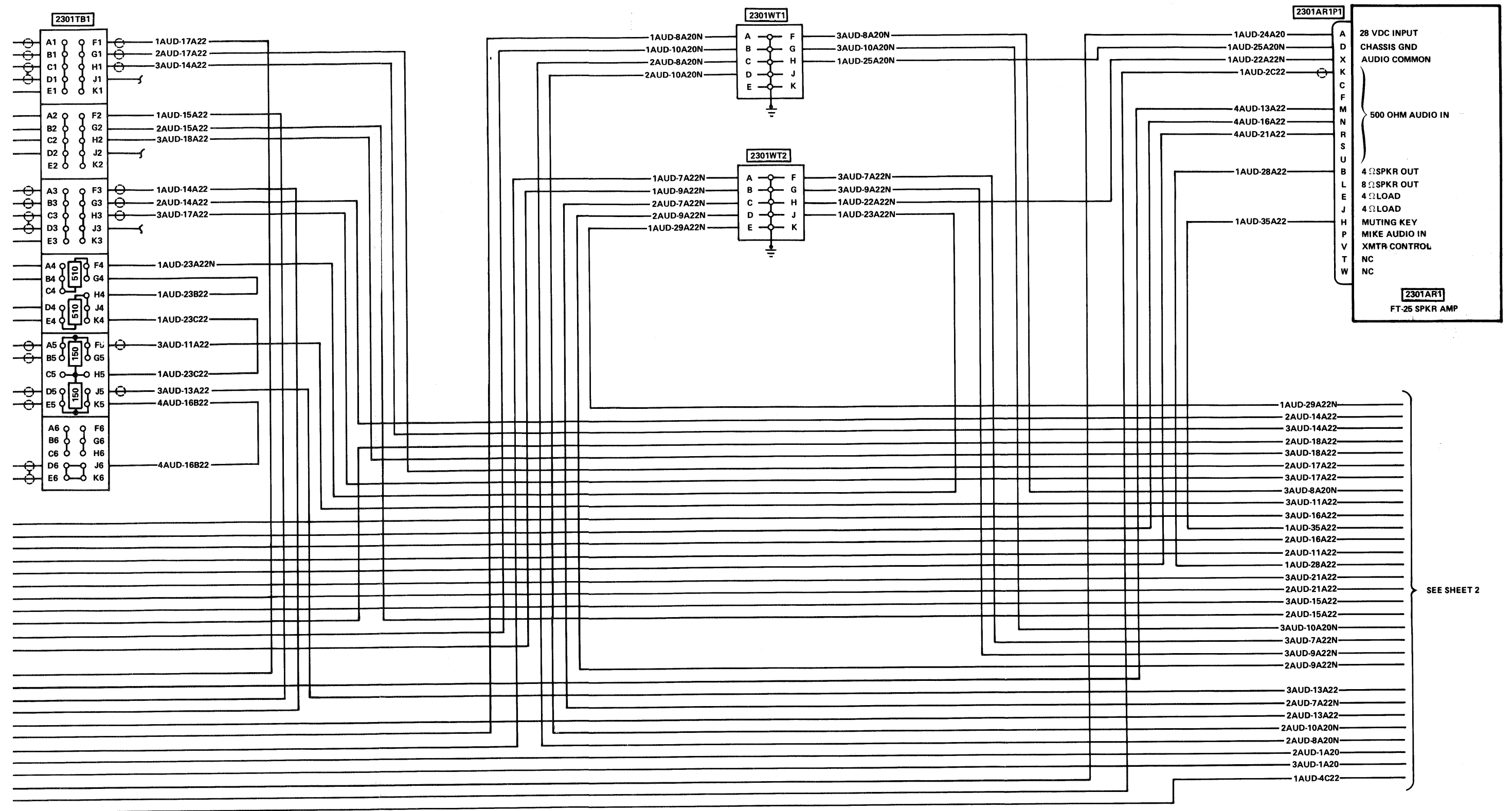


Figure 98-11. C6533/ARC Intercommunication System (Right Side) TH-57B (Sheet 2 of 4)

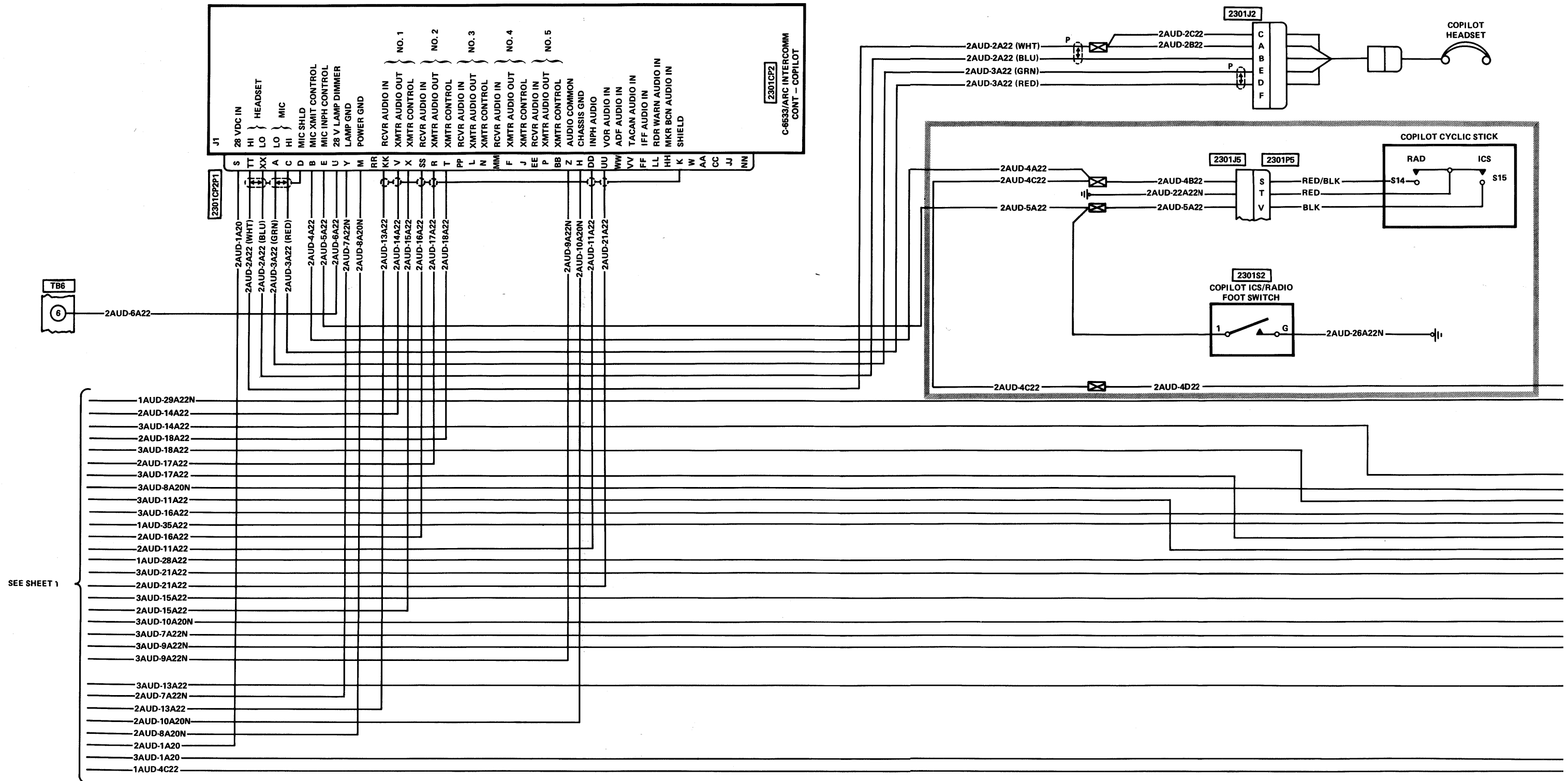


Figure 98-11. C6533/ARC Intercommunication System (Left Side) TH-57B (Sheet 3 of 4)



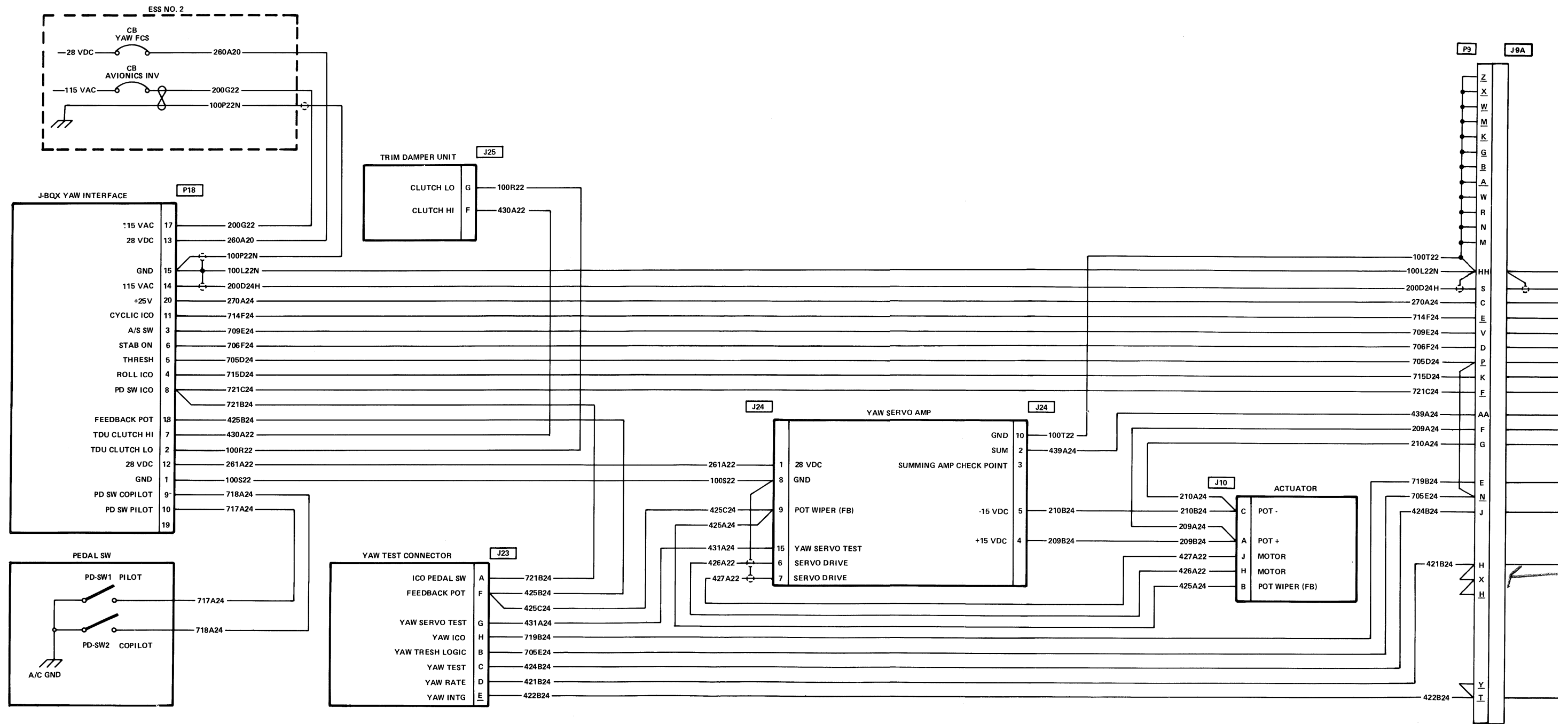


Figure 98-12. Electrical Power System Wiring Diagram (Left Side) TH-57C (Sheet 1 of 4)

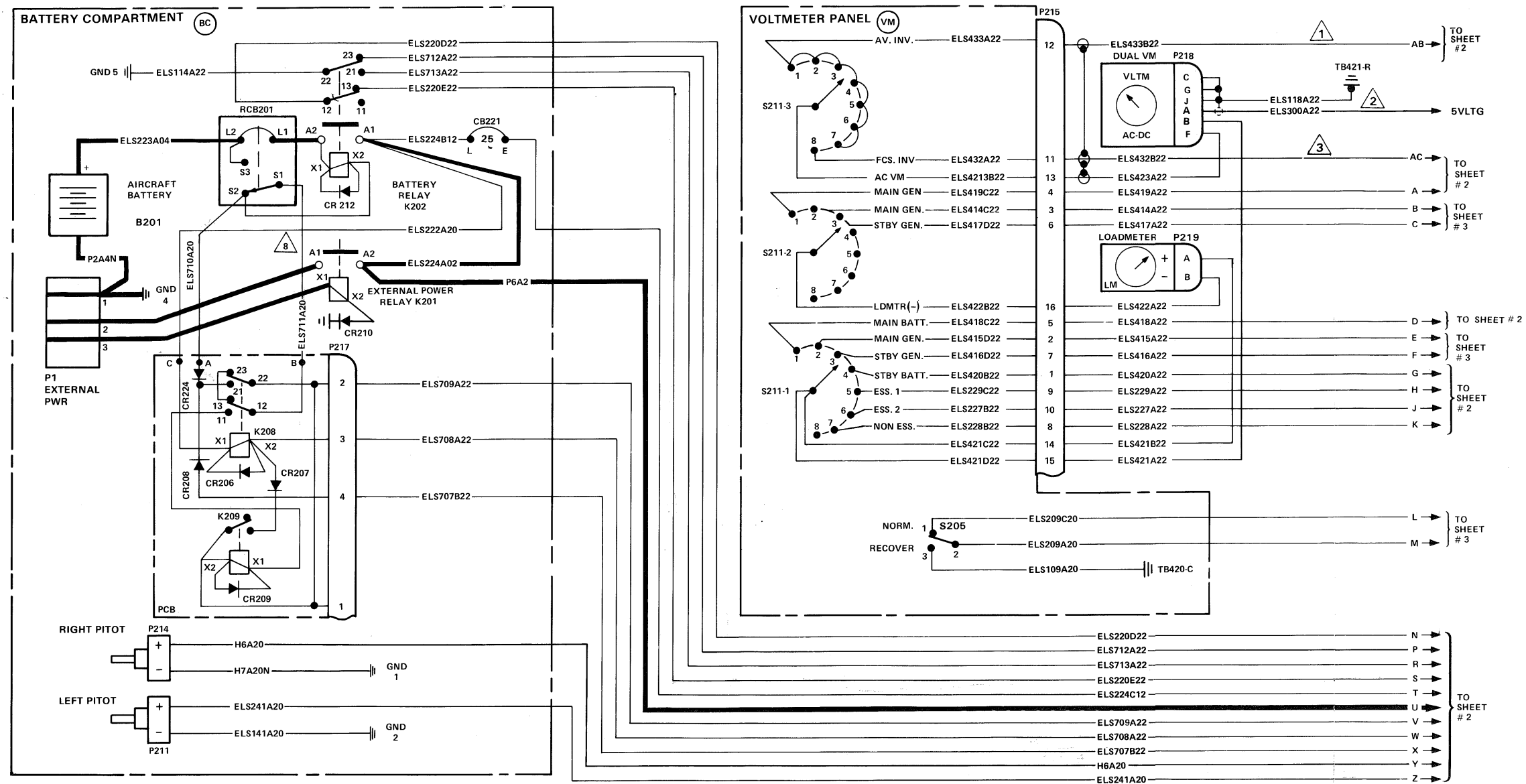


Figure 98-12. Electrical Power System Wiring Diagram (Right Side) TH-57C (Sheet 2 of 4)

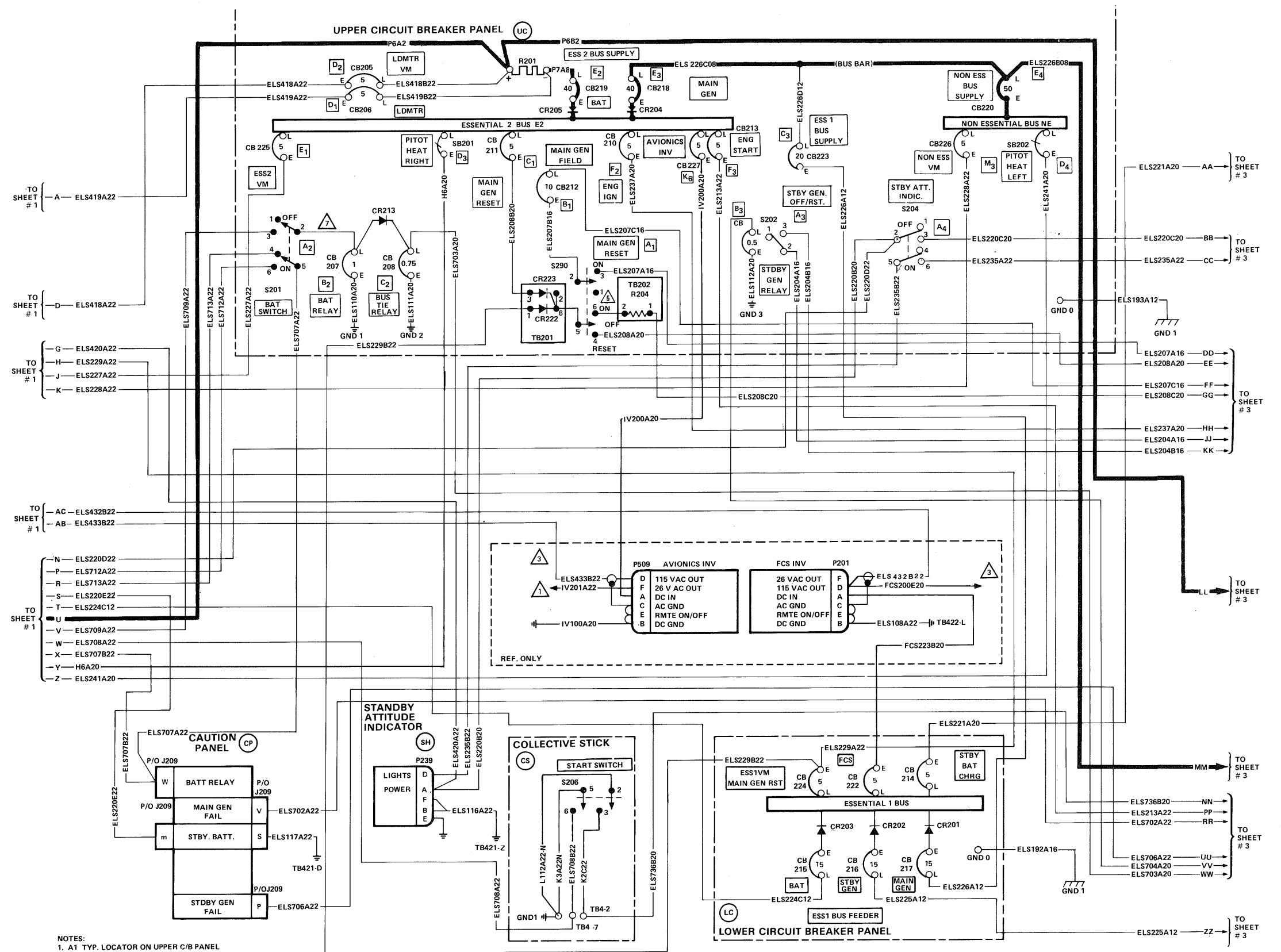


Figure 98-12. Electrical Power System Wiring Diagram TH-57C (Sheet 3 of 4)

Figure 98-12. Electrical Power System Wiring Diagram TH-57C (Sheet 4 of 4)

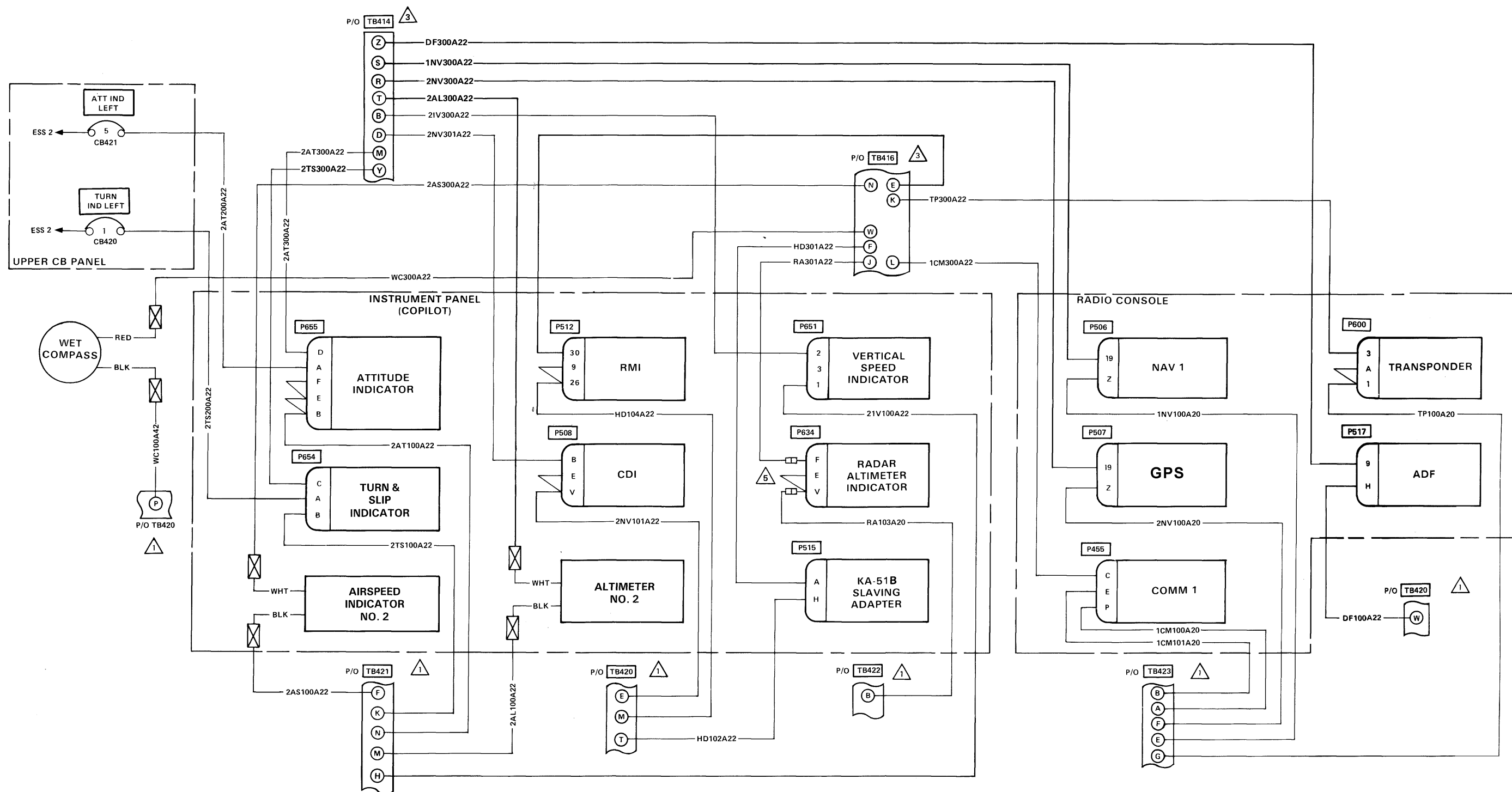


Figure 98-13. Lighting Circuits Wiring Diagram TH-57C (Sheet 1 of 2)

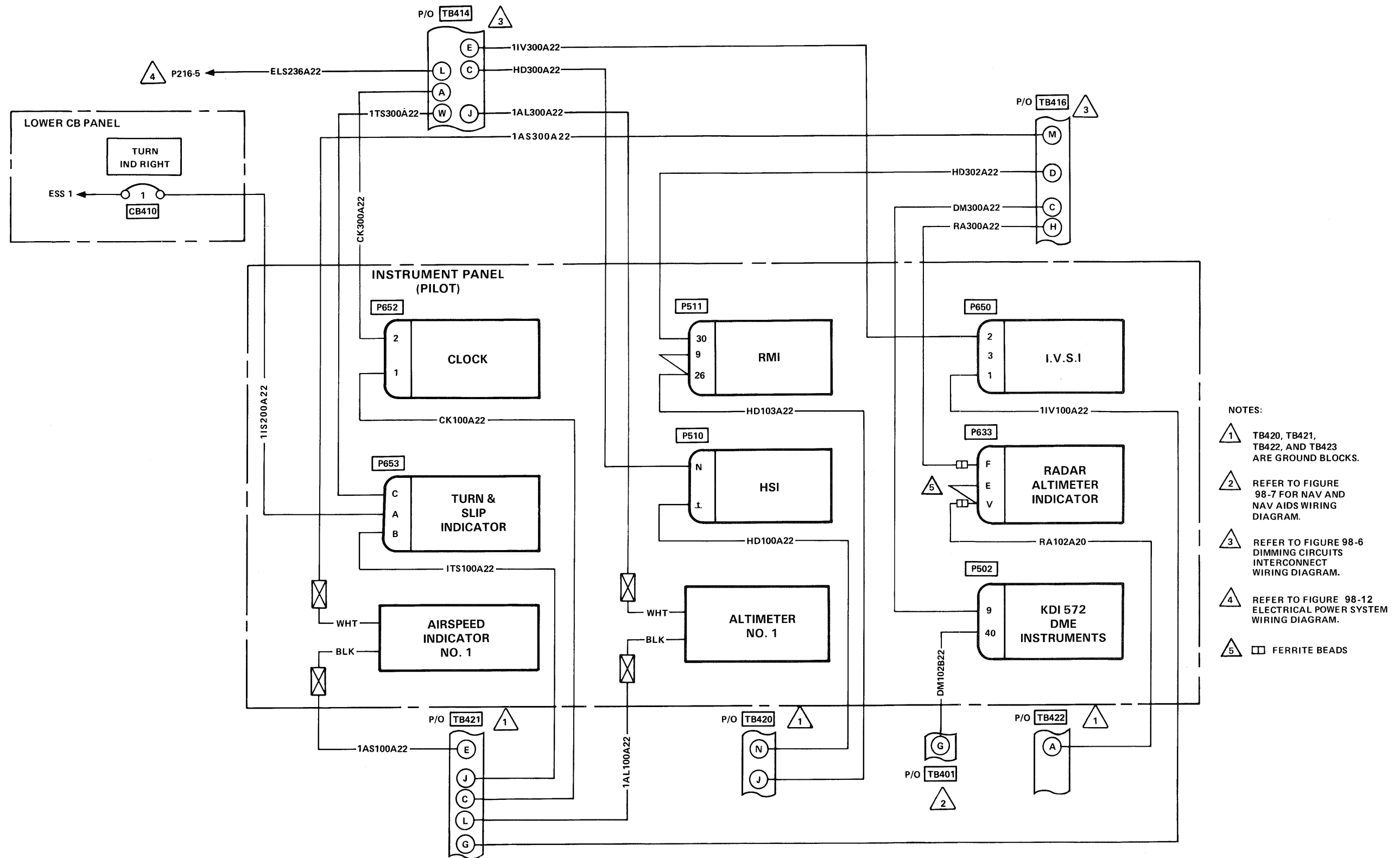
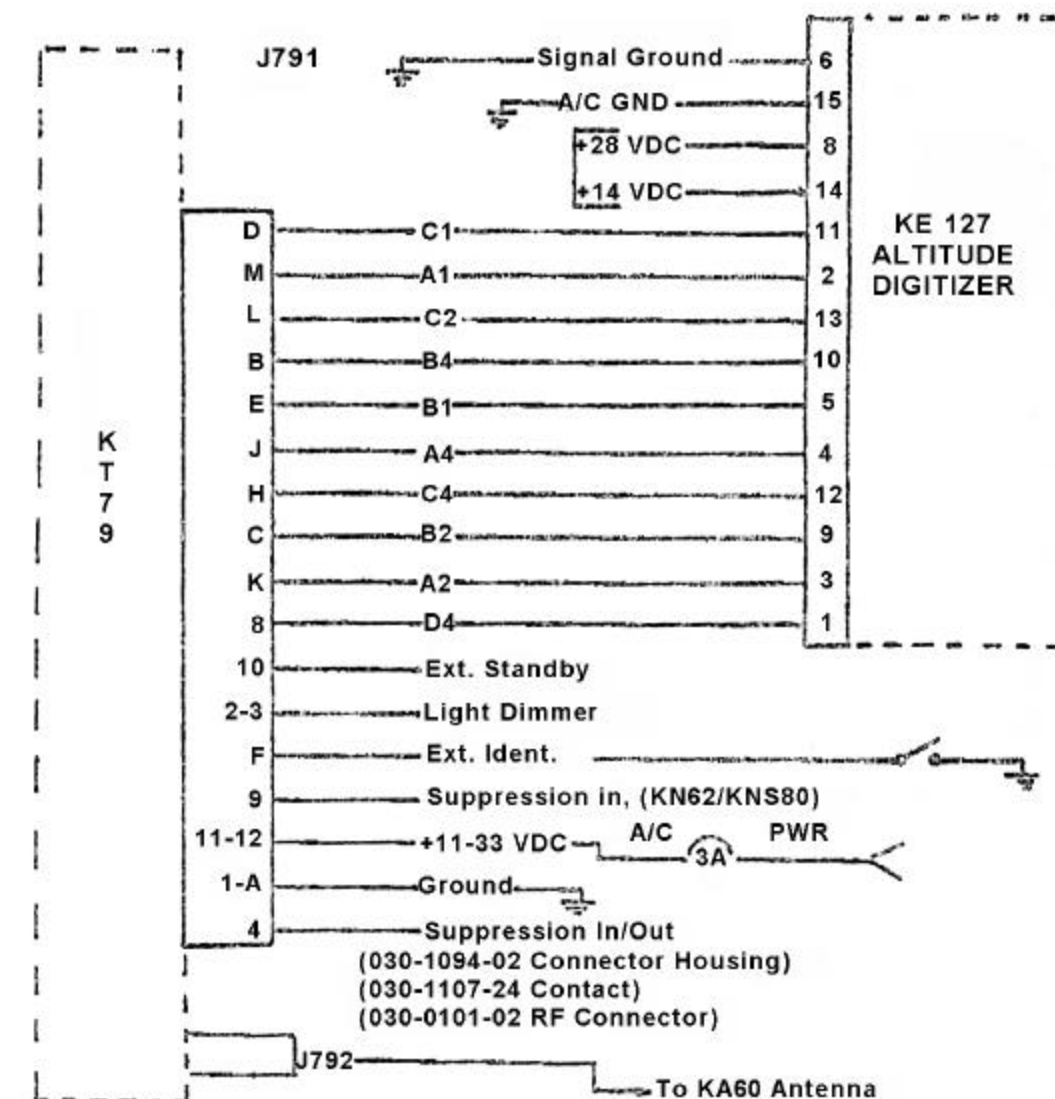


Figure 98-13. Lighting Circuits Wiring Diagram TH-57C (Sheet 2 of 2)





NOTES:

1. Use pin 8 for 28V or pin 14 for 14V. Do not connect pins together. Do not connect to pin 11 or 12 of the KT79.
2. Connector terminal number is specified on connector.
3. All wires should be #22 AWG.

Figure 98-15. KT-79 Interconnect Diagram TH-57B / C

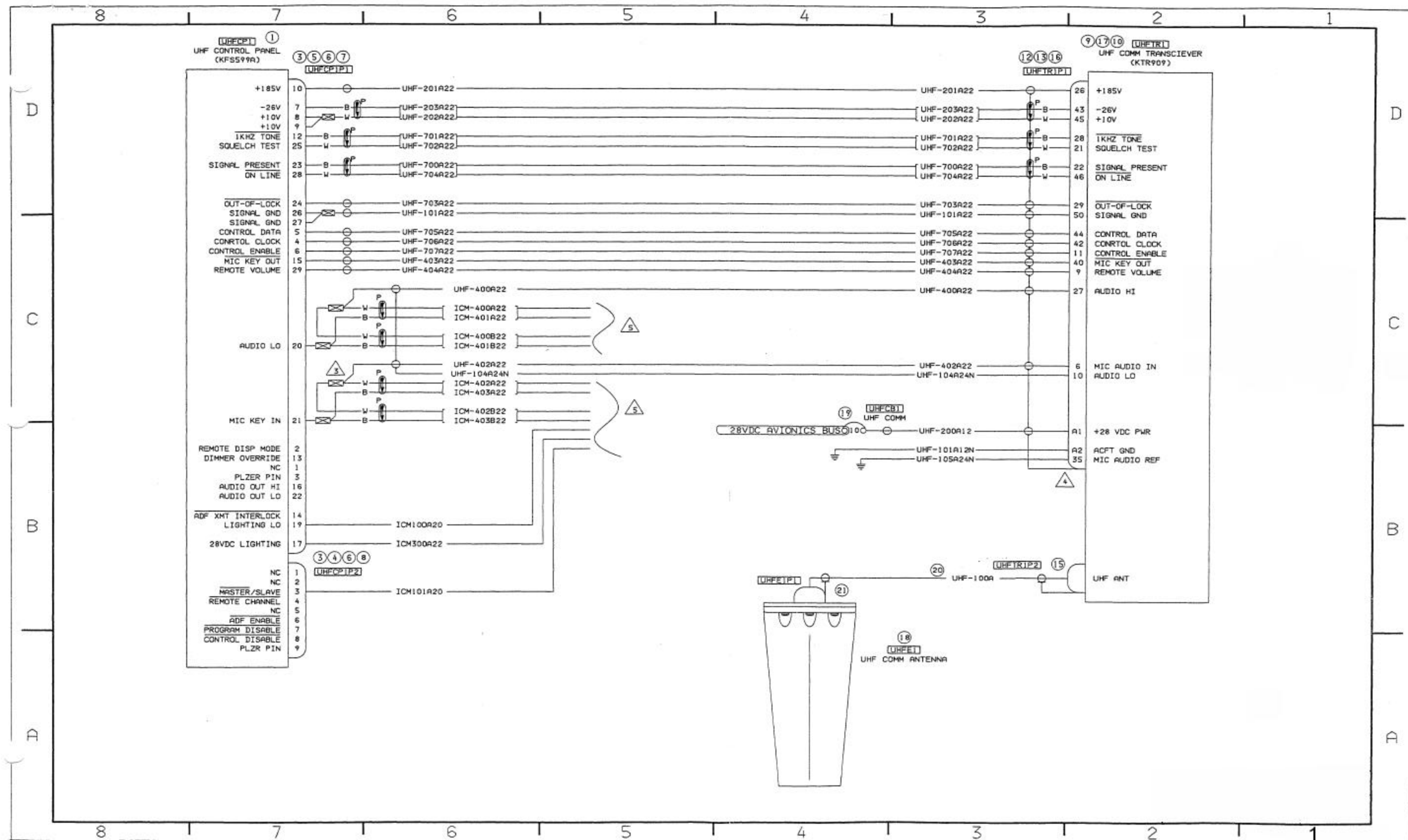
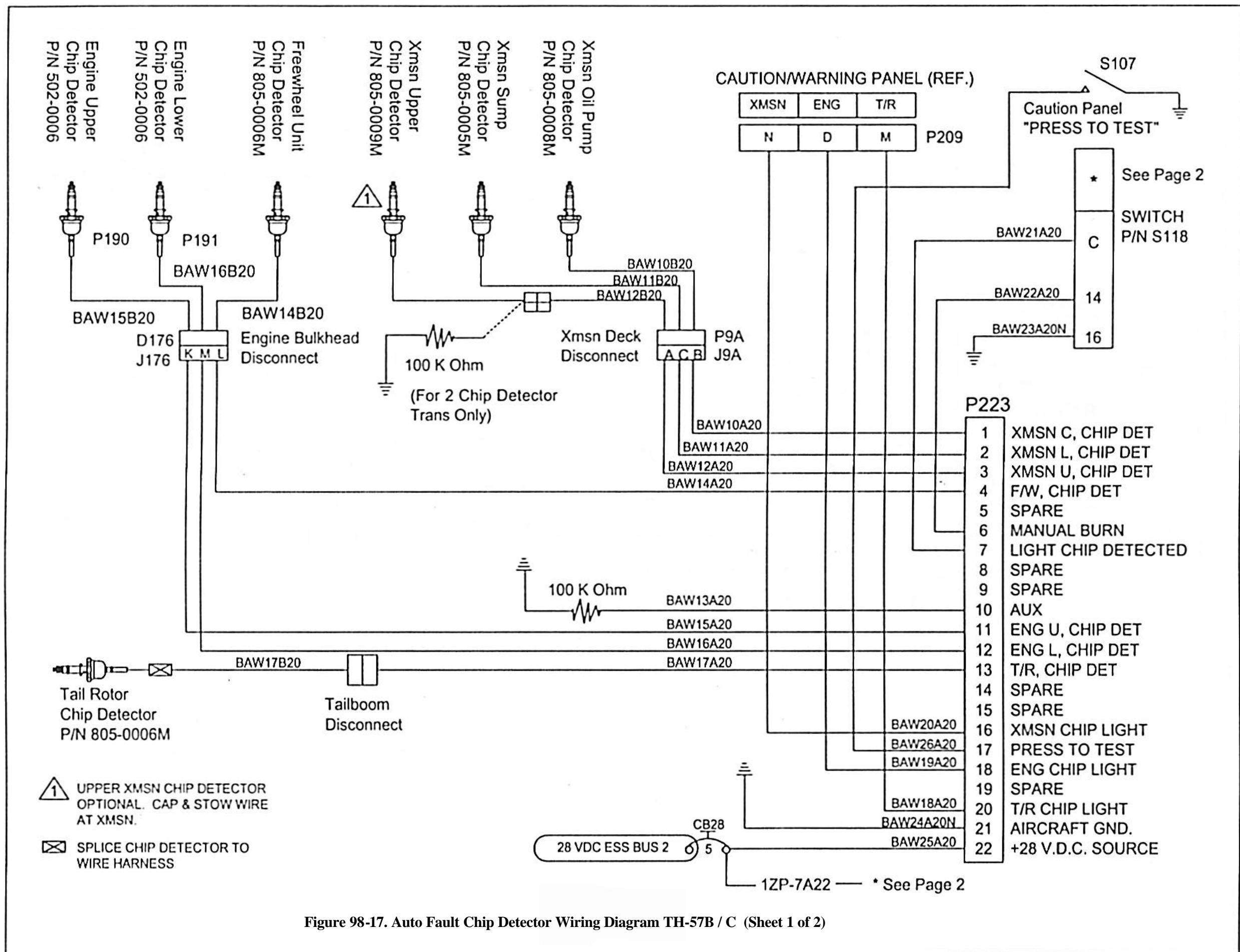


Figure 98-16. UHF Wiring Diagram TH-57C



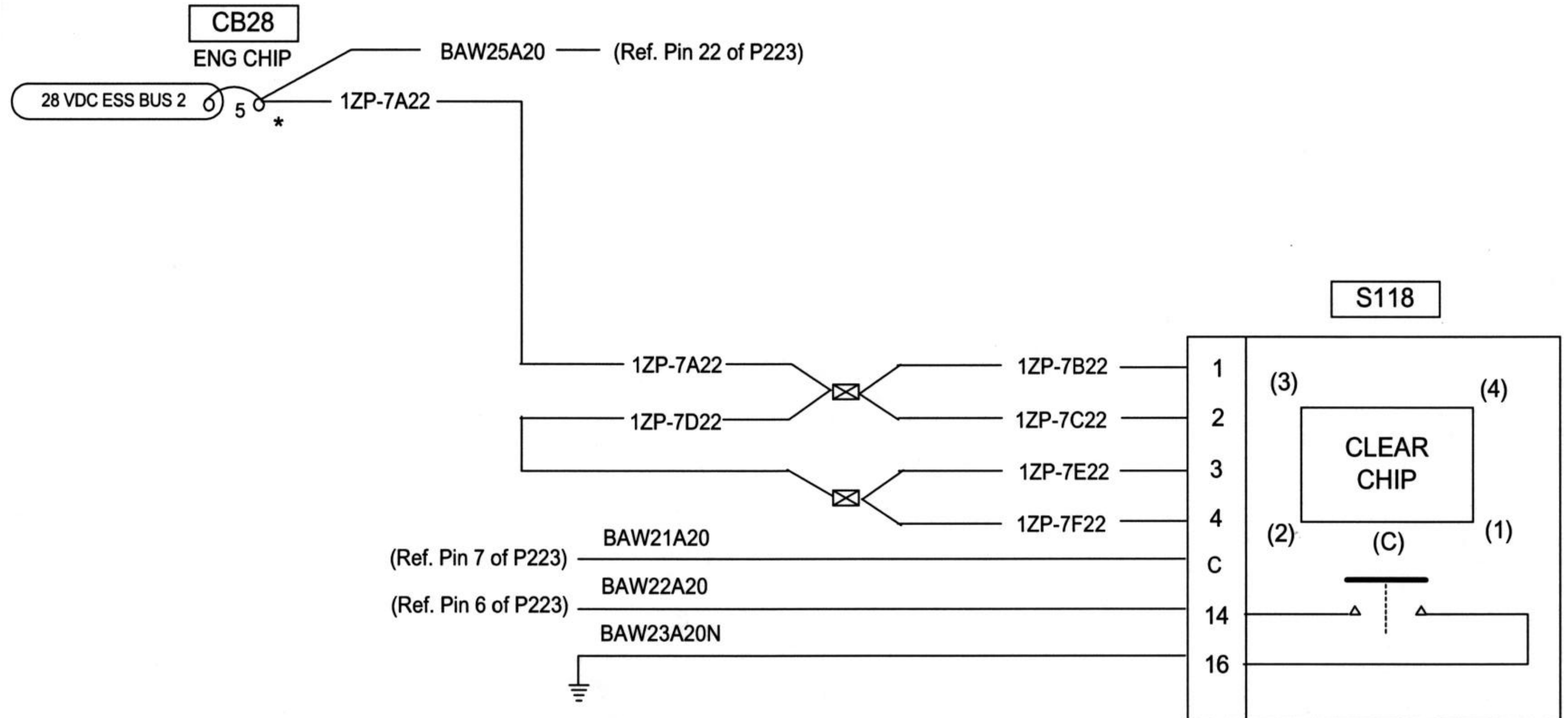
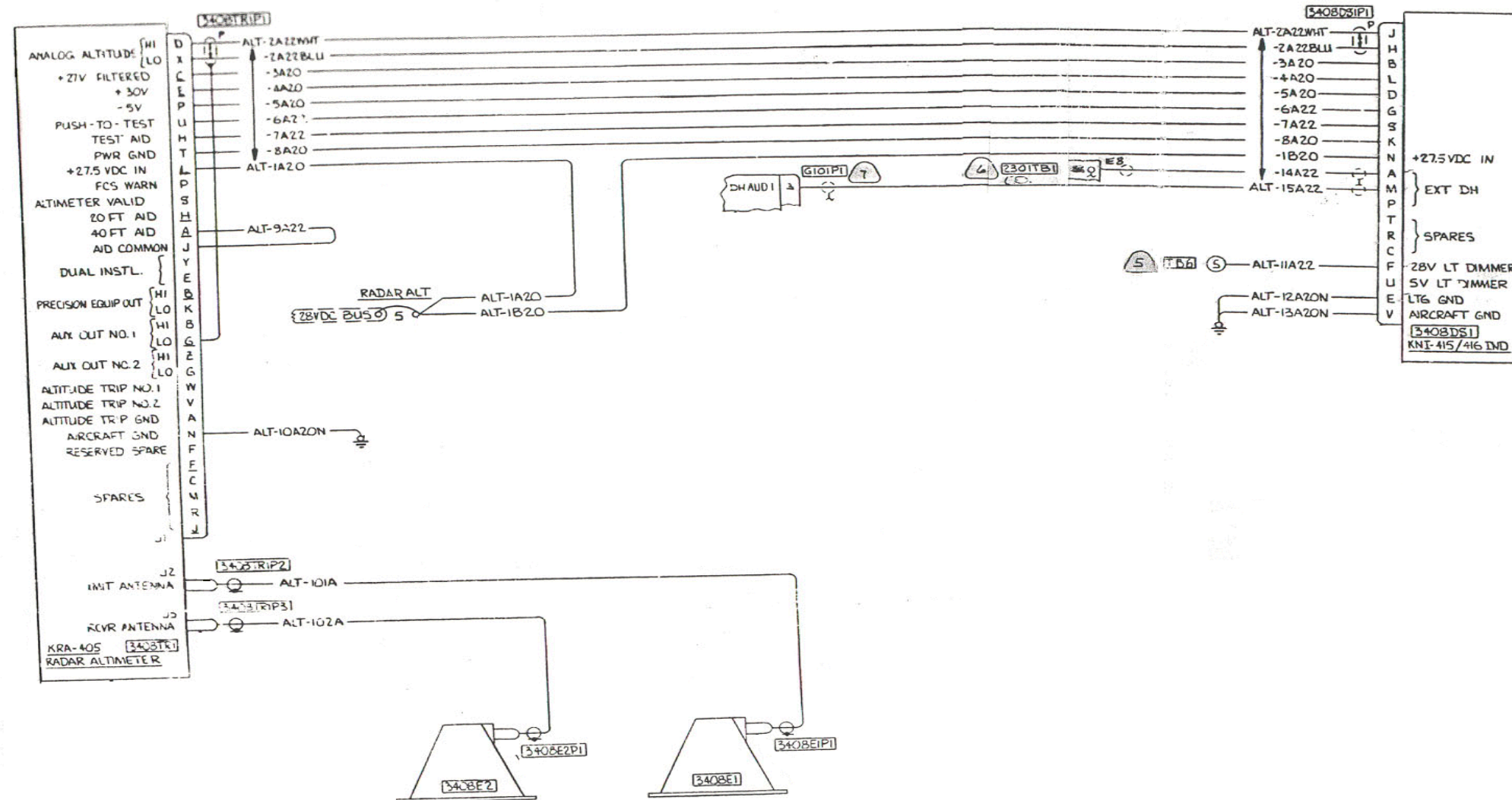


Figure 98-17. Auto Fault Chip Detector Wiring Diagram TH-57B / C (Sheet 2 of 2)



NOTES:

- WIRE TYPES ARE AS FOLLOWS:
TYPE 1 - M8381/12-()
TYPE 2 - 30-155-()R2
TYPE 3 - RG-393()U
TYPE 4 - 30-155-()R1
- TRIM CABLES ON INSTALL SUCH THAT CABLE LENGTHS ARE ±0.5 INCHES OF EACH OTHER.
- PART OF OSO-1391-00 KING INSTL KIT.
- PART OF OSO-1401-00 KING INSTL KIT.
- SEE DWG 206-706-340 AUX EQUIPMENT KIT ELECTRICAL INSTL. NIGHT FLYING.
- SEE DWG 206-961-545 ICS
- SEE DWG 206-577-012 LOW ROTOR/ENG OUT

DASH NO.	NEXT ASSY	USED ON	APPLICATION
-105	206-577-013	TH-57B	
-106	206-577-013	TH-57B	
-107	206-577-013	TH-57B	

UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON	ANGLES
XXX ± 0.10	8 1/2°
XX ± 0.05	8 1/2°
X ± 0.01	8 1/2°
SURFACE FINISH PER AMS 641	
✓ MACHINED SURFACES EXCEPT AS NOTED	

Figure 98-19. KRA-405 Radar Altimeter TH-57B

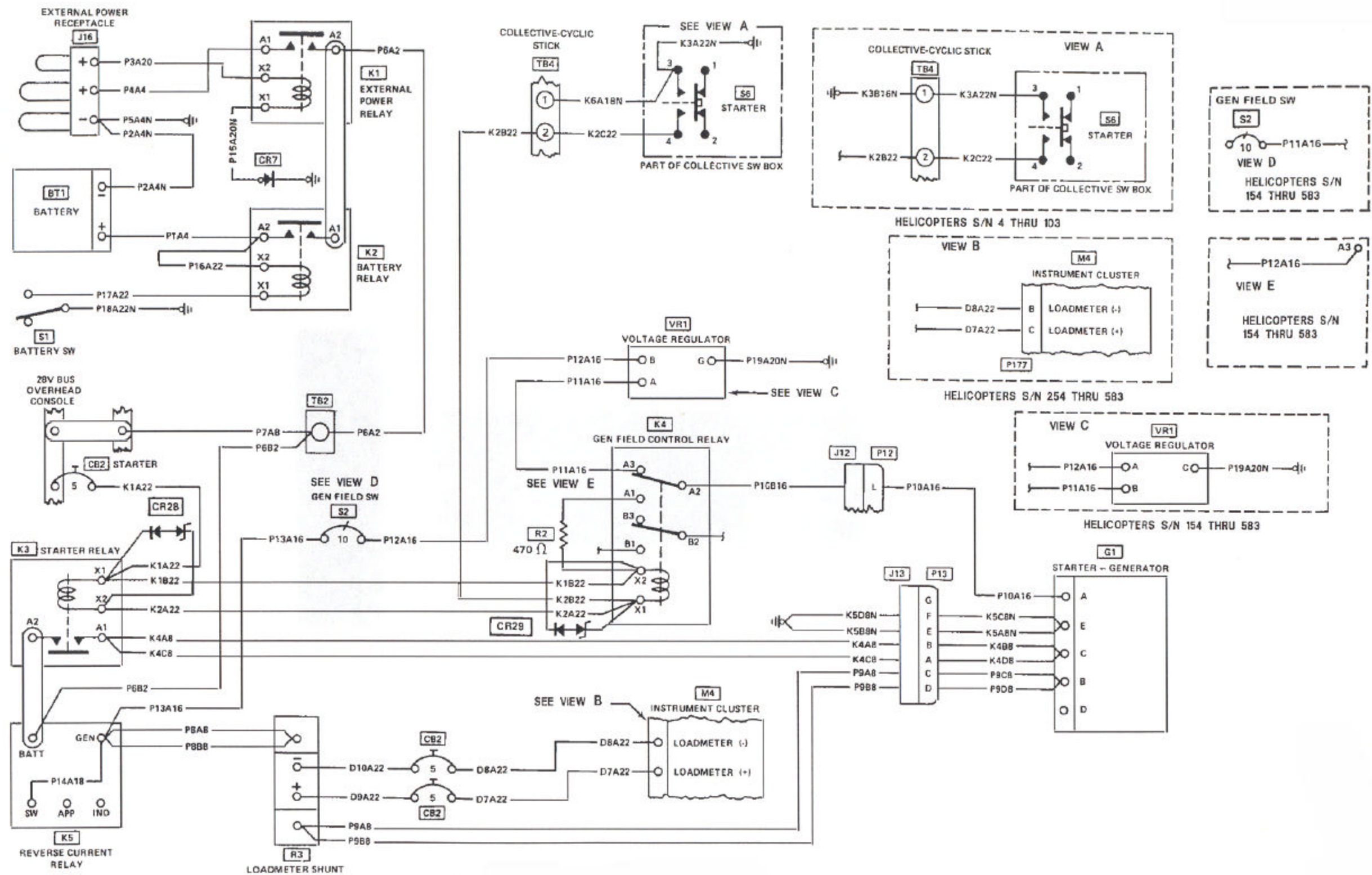


Figure 98-21. Electrical System TH-57B

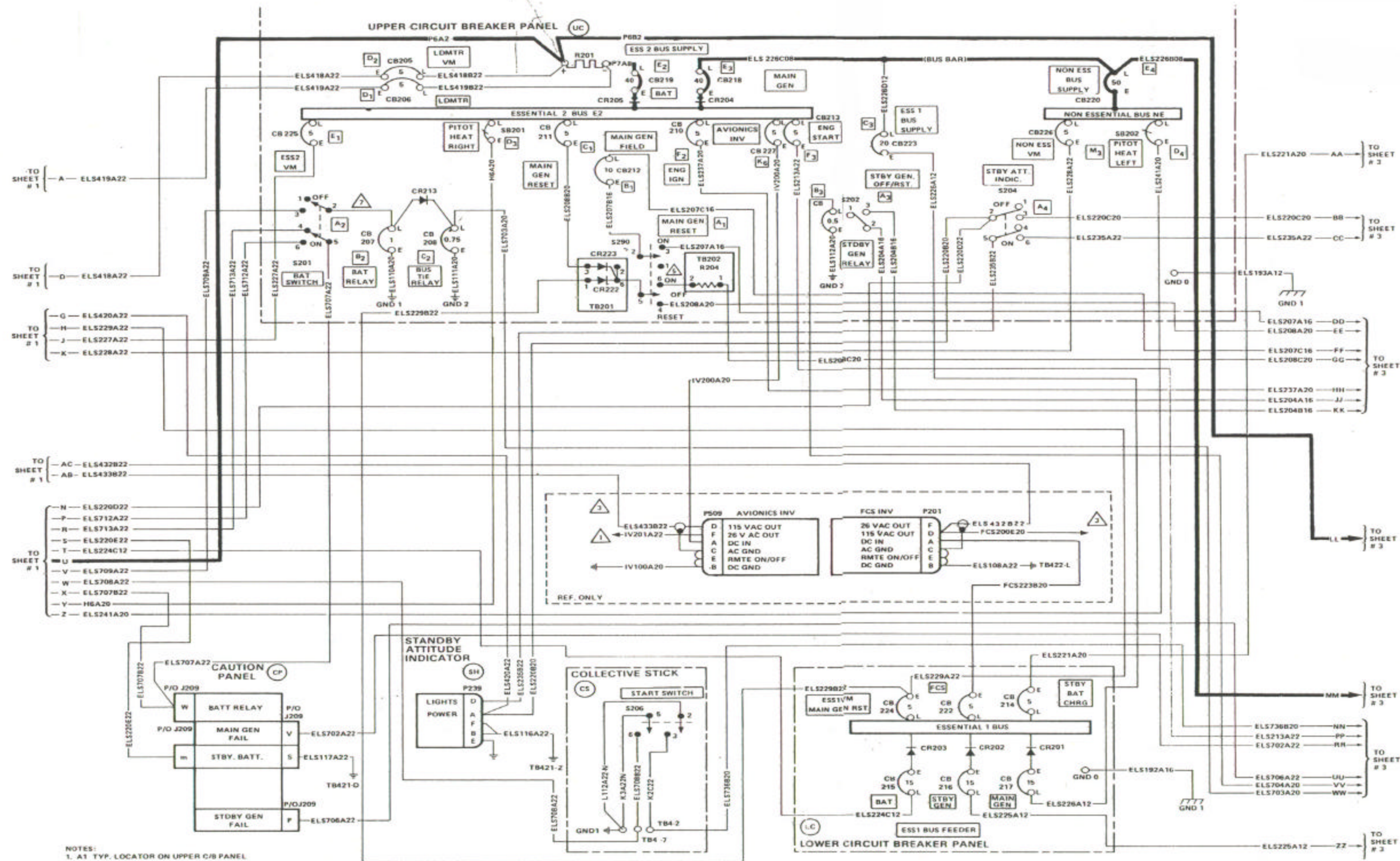


Figure 98-22. Electrical System TH-57C (Sheet 2)

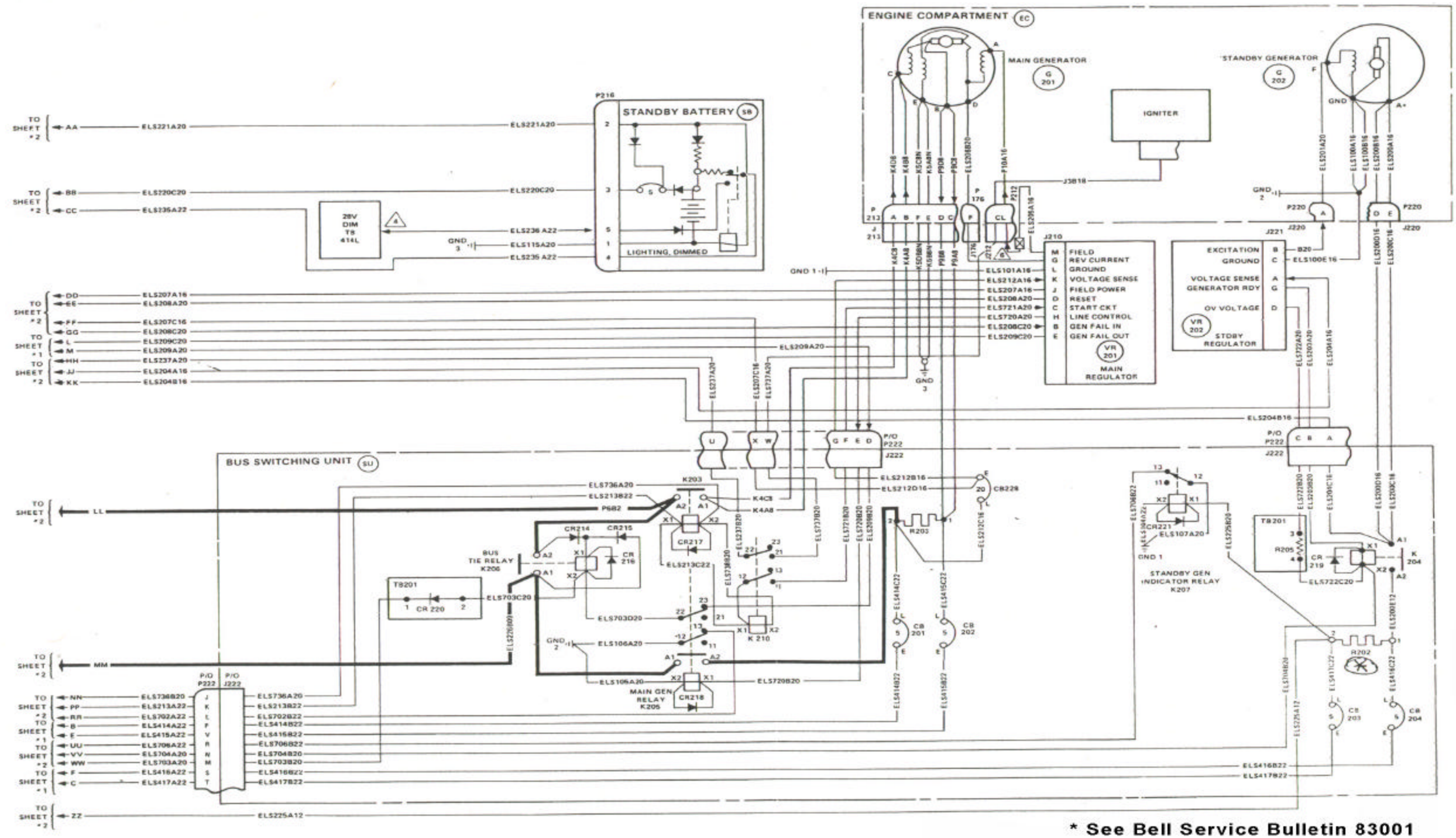


Figure 98-23. Electrical System TH-57C (Sheet 3)